Journal of The Electrochemical Society

Volume 143 — 1996

Author and Title Index

and

Subject Index

Using the Indices

Only Letters, Technical Papers, and Review Papers are included in the indices, and titles have been limited to ASCII text. Thus, superscripts and subscripts are not differentiated from ordinary characters, and Greek letters and symbols are spelled out, replaced, or, in some cases, omitted.

In the Author and Title Index, first authors are listed with any coauthors, the issue and page numbers, and the title. All other authors are listed with a reference to the first author and the issue and page number.

In the Subject Index, all the words that have been judged not insignificant in the titles are indexed and shown in their context, together with the issue and page numbers.

Author	Issue	Page
Abe, Hidenobu, see Shabani, Mohammad B.	6	2025
Abe, Toshiyuki, see Iwakura, Chiaki	4	L71
Abe, Yoshihiro; Li, Guangming; Nogami, Masayuki; Kasuga, Toshihiro; Hench, L. L. Superprotonic Conductors of Glassy Zirconium Phosphates	1	144
Abernathy, C. R., see Lee, J. W.	1	L1
Abernathy, C. R., see Lee, J. W.	8	L169
Abernathy, C. R., see Ren, F.	9	L217
Abernathy, C. R., see Stradtmann, R. R.	9	L219
Abernathy, C. R., see Vartuli, C. B.	10	L246
Abernathy, C. R., see Gillis, H. P.	11	L251
Abernathy, C. R., see Pearton, S. J.	2	752
Abernathy, C. R., see Lee, J. W.	3	1093
Abernathy, C. R., see Lee, J. W.	6	2010
Abernathy, C. R., see Shul, R. J.	10	3285
Abernathy, C. R., see Hong, J.	11	3658
Abernathy, C. R., see Vartuli, C. B.	11	3681
Abraham, K. M.; Jiang, Z. A Polymer Electrolyte-Based Rechargeable Lithium/Oxygen Battery	1	1
Abraham, K. M., see Jiang, Z.	5	1591
Abraham-Shrauner, Barbara; Wang, Chungdar Daniel Etching Profiles and Neutral Shadowing in Long Trenches	2	672
Abramova, N., see Muñoz, Javier	6	2020
Acero, M. C., see Pérez-Rodríguez, A.	3	1026
Ackerman, J. F., see Srivastava, A. M.	10	L234
Adachi, Gin-ya, see Jin, Tetsuro	10	3333
Adachi, Kentaro, see Eguchi, Koichi	11	3699
Adad, Luciana B., see Wypych, Fernando	8	2522
Adams, Daniel, see Russell, Stephen W.	7	2349
Adler, S. B.; Lane, J. A.; Steele, B. C. H. Electrode Kinetics of Porous Mixed-Conducting Oxygen Electrodes	11	3554
Adzic, R. R., see Hsiao, M. W.	3	759
Adzic, R., see Kanamura, Kiyoshi	9	2765
Afanas'ev, V. V.; Brown, G. A.; Hughes, H. L.; Liu, S. T.; Revesz, A. G. Conducting and Charge-Trapping Defects in Buried Oxide Layers of SIMOX Structures	1	347
Afanas'ev, V. V.; Revesz, Akos G.; Hughes, H. L. Confinement Phenomena in Buried Oxides of SIMOX Structures as Affected by Processing	2	695
Agarwal, Pankaj, see Orazem, Mark E.	3	948
Agarwal, Pankaj, see Jansen, Andrew N.	12	4066
Agarwal, Vishal; Liu, Meilin Colloidal Processing of BaCeO3-Based Electrolyte Films	10	3239
Aizawa, Masanobu, see Nishiyama, Haruo	7	2332
Akagi, Hisao, see Maruyama, Toshiro	1	283
Akagi, Hisao, see Maruyama, Toshiro	6	1955
Akagi, Hisao, see Maruyama, Toshiro	12	4087
Akai, T., see Tatsumi, K.	6	1923
Akiya, H., see Hirata, Akihiko	11	3747
Akiya, Hideo; Itsumi, Manabu Barrier Height Lowering and Instability of Gate Oxides Due to Dilute Hydrofluoric Acid Pretreatment	3	973
Akiya, Hideo, see Itsumi, Manabu	7	2357
Akiya, Hideo, see Itsumi, Manabu	10	3359
Akiya, Hideo, see Itsumi, Manabu	11	3757
Alami, M., see Charbonnier, M.	2	472
Alber, Kathryn S., see Cox, James A.	6	L126
Aldaz, A., see Gomis, J. A.	10	3166
Aldykiewicz, A. J., Jr.; Davenport, A. J.; Isaacs, Hugh S. Studies of the Formation of Cerium-Rich Protective Films Using X-Ray Absorption Near-Edge Spectroscopy and Rotating-Disk-Electrode Methods	1	147
Alford, T. L., see Russell, Stephen W.	7	2349
Ali, Iqbal, see Jeon, Joong S.	9	2870
Al-Jassim, M. M., see Menna, Pietro	6	L115
Alkire, Richard C., see Park, J. O.	8	L174
Alkire, Richard C., see Schmidt, Wolfgang U.	10	3122
Allegretto, E. M., see Bardwell, Jennifer A.	9	2931
Amatucci, Glenn G.; Tarascon, J. M.; Klein, Lisa C. CoO2, The End Member of the LixCoO2 Solid Solution	3	1114
Ament, P. C. H., see Vossen, J. P. T.	7	2272
Amine, Khalil; Tukamoto, Hisashi; Yasuda, Hedio; Fujita, Yuko A New Three-Volt Spinel Li1+xMn1.5Ni0.5O4 for Secondary Lithium Batteries	5	1607
Anderson, Alfred B., see Martin, Heidi B.	6	L133
Anderson, Alfred B.; Grantscharova, E.; Seong, Seeyearl Systematic Theoretical Study of Alloys of Platinum for Enhanced Methanol Fuel Cell Performance	6	2075
Anderson, Harlan U., see Reed, David M.	5	1558
Anderson, Marc A., see Liu, Kuo-Chuan	1	124
Anderson, Marc A., see Stadniychuk, Helena P.	5	1629
Andersson, S. G., see Nordell, N.	9	2910
Andreasen, G.; Nazzarro, M.; Ramirez, J.; Salvarezza, R. C.; Arvia, A. J. Kinetics of Particle Coarsening at Gold Electrode/Electrolyte Solution Interfaces Followed by In Situ Scanning Tunneling Microscopy	2	466
Angell, C. A., see Xu, Kang	11	3548
Angell, C. Austen, see Xu, Kang	9	L209
Angell, C. Austen, see Zhang, Shengshui S.	12	4047
Angus, John C., see Martin, Heidi B.	6	L133
Antonucci, V., see Aricó, A. S.	12	3950
Aoki, Akihiko; Nogami, Gyoichi Fabrication of Anatase Thin Films from Peroxo-Polytitanic Acid by Spray Pyrolysis	9	L191
Aoki, Hidemitsu, see Shiramizu, Yoshimi	5	1632
Aoki, Y., see Matsuzawa, Takashi	8	2670
Aoki, Y., see Nakamura, M.	9	2876
Aoyama, Takayuki; Yamazaki, Tatsuya; Ito, Takashi Nonuniformities in Chemical Oxides on Silicon Surfaces Formed during Wet Chemical Cleaning	7	2280
Aoyama, Tomonori; Saida, Shigehiko; Okayama, Yasunori; Fujisaki, Masanori; Imai, Keitaro; Arikado, Tsunetoshi Leakage Current Mechanism of Amorphous and Polycrystalline Ta2O5 Films Grown by Chemical Vapor Deposition	3	977
Appetecchi, G. Battista; Dautzenberg, G.; Scrosati, Bruno A New Class of Advanced Polymer Electrolytes and Their Relevance in Plastic-Like, Rechargeable Lithium Batteries	1	6
Arai, Hiromichi, see Eguchi, Koichi	11	3699
Arai, Susumu, see Maruyama, Toshiro	4	1383
Arakawa, Takumi, see Sato, Yuichi	10	L225
Aramaki, Kunitsugu, see Kawai, Tatsuya	12	3868
Argolfa, Alberto, see Martin, Heidi B.	6	L133
Aricó, A. S.; Creti, P.; Kim, H.; Mantegna, R.; Giordano, N.; Antonucci, V. Analysis of the Electrochemical Characteristics of a Direct Methanol Fuel Cell Based on a Pt-Ru/C Anode Catalyst	12	3950
Arikado, Tsunetoshi, see Aoyama, Tomonori	3	977
Arita, Yoshinobu, see Saito, Kunio	11	3778
Arita, Yoshinobu, see Ohno, Kazuhide	12	4089
Armand, M., see Papageorgiou, N.	10	3099
Armstrong, T. R., see Stevenson, J. W.	9	2722
Armstrong, Timothy R.; Stevenson, Jeffry W.; Pederson, Larry R.; Raney, Paige E. Dimensional Instability of Doped Lanthanum Chromite	9	2919
Armyanov, S., see Valova, E.	9	2804
Armyanov, S.; Steenhaut, O.; Krasteva, N.; Georgieva, J.; Delplancke, J. L.; Winand, R.; Vereecken, J. Auger Electron Spectroscopy Element Profiles and Interface with Substrates of Electroless Deposited Ternary Alloys	11	3692
Arvia, A. J., see Andreasen, G.	2	466
Arvia, A. J., see Carro, P.	7	2294
Asami, Katsuhiko, see Ono, Sachiko	3	L82
Asher, S. E., see Menna, Pietro	6	L115
Ashida, Y., see Ohkubo, Suehiro	10	3273
Atanasova, Paolina, see Jain, Sanjeev	11	3762
Athanassov, Y., see Papageorgiou, N.	10	3099
Aubard, Jean, see Mostefai, Malik	7	2116
Aurbach, Doron, see Ein-Eli, Yair	12	L273
Aurbach, Doron, see Mengeritsky, E.	7	2110
Aurbach, Doron; Cohen, Yair The Application of Atomic Force Microscopy for the Study of Li Deposition Processes	11	3525
Aurbach, Doron; Markovsky, B.; Schechter, A.; Ein-Eli, Y.; Cohen, H. A Comparative Study of Synthetic Graphite and Li Electrodes in Electrolyte Solutions Based on Ethylene Carbonate-Dimethyl Carbonate Mixtures	12	3809
Avalle, Lucia, see Nogami, Gyoichi	11	3600
Avyigal, Y., see Vinokur, N.	10	L238
Aydil, Eray S., see Tretheway, Derek	11	3674
Aymard, L., see Disma, F.	12	3959
Azam, A., see Papageorgiou, N.	10	3099
Baccar, Z. M.; Jaffrezic-Renault, N.; Kraft, J. M.; Martelet, C.; Jaffrezic, H.; Marest, G.; Plantier, A. Characterization of Na+-Sensitive Electrolyte/Oxide/Semiconductor Structures Obtained by Ion Implantation	4	1422
Bach, S.; Pereira-Ramos, J. P.; Baffier, N. Rechargeable 3 V Li Cells Using Hydrated Lamellar Manganese Oxide	11	3429
Badding, M. E., see McCormack, M.	2	L31
Baddour-Hadjean, R.; Farcy, J.; Pereira-Ramos, J. P.; Baffier, N. A Kinetic Study of Lithium Transport in a New Li Intercalation Material Al0.11V2O5.15 Synthesized via a Sol-Gel Process	7	2083
Badenes, Goncal, see Kopalidis, Peter M.	5	1763
Badmaeva, I. A., see Baklanov, Mikhail R.	10	3245
Baek, J. T., see Lee, C. S.	3	1099
Baffier, N., see Baddour-Hadjean, R.	7	2083
Baffier, N., see Bach, S.	11	3429
Baik, Hong Koo, see Lee, Seung Joo	11	L268
Baker, Daniel R., see Verbrugge, Mark W.	1	197
Baker, Daniel R., see Verbrugge, Mark W.	7	2252
Baker, Daniel R.; Verbrugge, Mark W. Theory and Simulation of Solid-Electrolyte Wide-Range Sensors for Combustion-Gas Streams	7	2396
Baker, Kevin L., see Bell, David A.	1	296
Bakker, Eric Determination of Improved Selectivity Coefficients of Polymer Membrane Ion-Selective Electrodes by Conditioning with a Discriminated Ion	4	L83
Baklanov, Mikhail R.; Badmaeva, I. A.; Donaton, R. A.; Sveshnikova, L. L.; Storm, W.; Maex, K. Kinetics and Mechanism of the Etching of CoSi2 in HF-Based Solutions	10	3245
Balachandran, U., see Ma, B.	5	1736
Baldwin, Richard P., see Qi, Xiaohe	4	1283
Baranauskas, V., see Lopes, M. C. V.	3	1021
Barcia, O. E., see D'Elia, E.	3	961
Bard, Allen J., see Liu, Chong-yang	6	1914
Bardwell, Jennifer A.; Evans, R. J.; Draper, N.; Rolfe, S. J.; Naem, A.; Simard-Normandin, M. Dopant Depth Profiling by Anodic Sectioning Using 0.1 M HCl Electrolyte	11	L256
Bardwell, Jennifer A.; Allegretto, E. M.; Phillips, J.; Buchanan, M.; Draper, N. Influence of the Initial Electrochemical Potential on the Growth Mechanism and Properties of Anodic Oxides on (100) Si	9	2931
Barker, J., see West, Keld	3	820
Barker, J., see Shi, Hang	11	3466
Barnett, C. J., see Burstein, G. T.	7	L139
Baroux, B., see Salot, Raphaël	12	3902
Barrette, John P., see DeSalvo, Gregory C.	11	3652
Barrettoni, M., see Kulesza, Pawel J.	1	L10
Barrettoni, M., see Tossici, R.	3	L64
Bársony, István, see Dücso, Csaba	2	683
Barthel, J.; Buestrich, R.; Carl, E.; Gores, H. J. A New Class of Electrochemically and Thermally Stable Lithium Salts for Lithium Battery Electrolytes. II. Conductivity of Lithium Organoborates in Dimethoxyethane and Propylene Carbonate	11	3565
Barthel, J.; Buestrich, R.; Carl, E.; Gores, H. J. A New Class of Electrochemically and Thermally Stable Lithium Salts for Lithium Battery Electrolytes. III. Synthesis and Properties of Some Lithium Organoborates	11	3572
Bar-Tow, D., see Peled, E.	1	L4
Bartroli, Jordi, see Muñoz, Javier	6	2020
Basak, S., see Senthurchelvan, R.	1	44
Basak, S., see Shin, Eun-Mi	5	1562
Batchelor, R. A.; Burdis, M. S.; Siddle, J. R. Electrochromism in Sputtered WO3 Thin Films	3	1050
Bates, J. B., see Wang, Bo	10	3203
Baumvol, I. J. R.; Stedile, F. C.; Ganem, J.-J.; Trimaille, I.; Rigo, S. Thermal Nitridation of SiO2 Films in Ammonia: The Role of Hydrogen	4	1426
Baumvol, I. J. R.; Stedile, F. C.; Ganem, J.-J.; Trimaille, I.; Rigo, S. Thermal Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in Further Stages and in Re-oxidation	9	2946
Baumvol, Israel J. R.; Stedile, F. C.; Ganem, J.-J.; Trimaille, I.; Rigo, S. Thermal Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in the Initial Stages	9	2938
Bayoumi, Amr, see Zhang, Kevin X.	2	744
Bechtold, Thomas; Burtscher, Eduard; Turcanu, Aurora; Bobleter, Ortwin Indirect Electrochemical Reduction of Dispersed Indigo Dyestuff	8	2411
Beck, P., see Savadogo, O.	12	3842
Beck, S. E., see George, Mark	10	3257
Bedeaux, Dick; Kjelstrup, Signe The Dissipated Energy of Electrode Surfaces: Temperature Jumps from Coupled Transport Processes	3	767
Bedeaux, Dick, see Kjelstrup, Signe	3	779
Beers, W. W., see Srivastava, A. M.	9	L203
Beers, W. W., see Srivastava, A. M.	12	4113
Bélanger, Daniel, see Laperrière, Guylaine	10	3109
Bell, David A.; McConica, Carol M.; Baker, Kevin L.; Kuchta, Elizabeth Batch Reactor Kinetic Studies of Tungsten LPCVD from Silane and Tungsten Hexafluoride	1	296
Bellucci, F., see Mitton, D. B.	10	3307
Bellutti, Pierluigi; Zen, M. Oxide Growth Effects in Micron and Submicron Field Regions. A Comparison Between Wet and Dry Oxidation	9	2953
Belsky, Richard A., see Thomas, Richard R.	2	643
Bender, H., see Rotondaro, Antonio L. P.	6	L118
Bender, H., see Li, Li	1	233
Benglas-Smith, Gallia, see Shin, Eun-Mi	5	1562
Bengtsson, Stefan, see Edholm, Bengt	4	1326

Author	Issue	Page
Bengtsson, Stefan, see Ljungberg, Karin	5	1709
Bengtsson, Stefan, see Ericsson, Per	11	3722
Benton, J. L.; Stolk, P. A.; Eaglesham, D. J.; Jacobson, D. C.; Cheng, J. Y.; Poate, J. M.; Myers, S. M.; Haynes, T. E. Th≥ Mechanisms of Iron Gettering in Silicon by Boron Ion-Implantation	4	1406
Berger, Horst H.; Müller, Bernt; Jacob, Kerstin Oxide Growth Enhancement Related to Annealing Induced Arsenic Accumulation in the Si/SiO2 Interface Region	1	L15
Berger, Horst H., see Biermann, Erich	4	1434
Berger, R. J.; Doesburg, E. B. M.; van Ommen, J. G.; Ross, J. R. H. Investigation of Alkali Carbonate Transport Toward the Catalyst in Internal Reforming MCFCs	10	3186
Berghotz, W., see Delilth, M.	1	210
Bernard, C., see Pons, M.	11	3727
Bernard, M. C.; Keddam, M.; Takenouti, H.; Bernard, P.; Sényarich, S. Electrochemical Behavior of Quasi-Spherical Beta-Ni(OH)2 Particles Studied by Raman Spectroscopy	8	2447
Bernard, P., see Bernard, M. C.	8	2447
Berndt, D.; Teutsch, U. Float Charging of Valve-Regulated Lead-Acid Batteries: A Balancing Act Between Secondary Reactions	3	790
Bertagna, Valérie; Plougonven, Christian; Rouelle, Francois; Chemla, M. p- and n-Type Silicon Electrochemical Properties in Dilute Hydrofluoric Acid Solutions	11	3532
Bhattacharya, Raghu Nath; Ginley, David S. Preparation of Lead-Zirconium-Titanium Film and Powder by Electrodeposition	1	97
Bhattacharya, Raghu Nath; Fernandez, A. M.; Contreras, M. A.; Keane, J.; Tennant, A. L.; Ramanathan, K.; Tuttle, J. R.; Noufi, R. N.; Hermann, A. M. Electrodeposition of In-Se, Cu-Se, and Cu-In-Se Thin Films	3	854
Biermann, Erich; Berger, Horst H.; Linke, Peter; Müller, Bernt Oxide Growth Enhancement on Highly n-Type Doped Silicon under Steam Oxidation	4	1434
Billat, S. Electroluminescence of Heavily Doped p-Type Porous Silicon under Electrochemical Oxidation in Galvanostatic Regime	3	1055
Bimberg, D., see Kappelt, Michael	10	3271
Binder, Leo; Kordesch, Karl; Urdl, Peter Improvements of the Rechargeable Alkaline MnO2-Zn Cell	1	13
Bjerrum, N. J., see Polyakova, L. P.	10	3178
Bjerrum, Niels J., see Matthiesen, F.	6	1793
Bladon, John J.; Lamola, Angelo; Lytle, Farrel W.; Sonnenberg, Wade; Robinson, John N.; Philipose, George A Palladium Sulfide Catalyst for Electrolytic Plating	4	1206
Blanquet, E., see Pons, M.	11	3727
Bobister, Orlwin, see Bechtold, Thomas	8	2411
Bockris, John O'M.; Kim, Jinseong Electrochemical Reductions of Hg(II), Ruthenium-Nitrosyl Complex, Chromate, and Nitrate in a Strong Alkaline Solution	12	3801
Boden, P. J., see Yan, H.	5	1577
Bogaerts, W. F., see Bosch, R. W.	12	4033
Bohling, D. A., see George, Mark	10	3257
Bonhote, P., see Papageorgiou, N.	10	3099
Boodts, Julien F. C., see de Andrade, Adalgisa R.	8	2452
Booker, G. R., see Delilth, M.	1	210
Boryczka, Stanislaw; Elothmani, Driss; Do, Quang Tho; Simonet, Jacques; Le Guillanton, Georges A New Preparation of Alpha-Oxo-Thioesters by Electro-oxidation of Diaryl Disulfides in the Presence of Alkynes	12	4027
Bosch, R. W.; Bogaerts, W. F. Harmonic Analysis of Corroding Systems Considering Diffusion Phenomena	12	4033
Bottomley, Lawrence A., see Dudel, Frank P.	8	L184
Bourget, L., see Olson, R. J., Jr.	1	288
Boutsville, A.; Imhoff, L.; Remy, J. C. Thermodynamics of the Formation of TiN from TiCl4-NH3-H2 on a Patterned Oxidized Silicon Substrate	10	3251
Bowman, R. C., Jr., see Witham, Charles	9	L205
Bowman, R. C., Jr., see Ratnakumar, B. V.	8	2578
Boyd, John M.; Ellul, Joseph P. Near-Global Planarization of Oxide-Filled Shallow Trenches Using Chemical Mechanical Polishing	11	3718
Bozack, M., see Casady, Jeffrey B.	6	1780
Bozada, Christopher A., see DeSalvo, Gregory C.	11	3652
Bratov, Andrey, see Muñoz, Javier	6	2020
Brenner, Abner Cells with Sodium Hypochlorite or Chlorite and Anodes of Magnesium or Aluminum	10	3133
Bressers, P. M. M. C.; Kelly, J. J.; Gardeniers, J. G. E.; Elwenspoek, M. Surface Morphology of p-Type (100) Silicon Etched in Aqueous Alkaline Solution	5	1744
Breyfogle, Bryan E.; Hung, Chen-Jen; Shumsky, Mark G.; Switzer, Jay A. Electrodeposition of Silver(II) Oxide Films	9	2741
Brillas, Enrique; Mur, Eva; Casado, Juan Iron(III) Catalysis of the Mineralization of Aniline Using a Carbon-PTFE O2-Fed Cathode	3	L49
Brinkmann, Ralf Peter; Furst, Robert; Werner, Chr.; Hierlemann, Matthias A Reduced-Fluid Dynamic Discharge Model for Applications in Technology-Oriented Computer-Aided Design	6	1940
Brossard, Louis, see Fournier, Joël	3	919
Brown, G. A., see Afanas'ev, V. V.	1	347
Brown, G., see Rotondaro, A. L. P.	9	3014
Brückner, Winfried, see Harz, Michael	4	1409
Bruno, A., see Tsuchiaki, Masakatsu	9	2965
Buchanan, M., see Bardwell, Jennifer A.	9	2931
Büchi, Felix N.; Wakizoe, Masanobu; Srinivasan, Supramaniam Microelectrode Investigation of Oxygen Permeation in Perfluorinated Proton Exchange Membranes with Different Equivalent Weights	3	927
Buckley, D. T., see Burke, L. D.	3	845
Buestrich, R., see Barthel, J.	11	3565
Buestrich, R., see Barthel, J.	11	3572
Bukatova, G. A., see Polyakova, L. P.	10	3178
Bullis, W. M.; Huff, Howard R. Interpretation of Carrier Recombination Lifetime and Diffusion Length Measurements in Silicon	4	1399
Burdis, M. S., see Batchelor, R. A.	3	1050
Burke, L. D.; Buckley, D. T. Anomalous Oxidation Reactions at Noble Metal Surfaces at Low Potentials: With Particular Reference to Palladium	3	845
Burke, T. M., see Rigden, J. S.	3	1033
Burstein, G. T.; Barnett, C. J.; Kucernak, Anthony R. J.; Williams, K. R. Anodic Oxidation of Methanol Using a New Base Electrocatalyst	7	L139
Burton, D., see Kanamura, Kiyoshi	9	2765
Burtscher, Eduard, see Bechtold, Thomas	8	2411
Byun, Jeong Soo; Seon, Jeong Min; Youn, Kang Shik; Hwang, Hyunsang; Park, Jin Won; Kim, Jae Jeong Defect Generation during Epitaxial CoSi2 Formation Using Co/Ti Bilayer on Oxide Patterned (100)Si Substrate and Its Effect on the Electrical Properties	3	L56
Byun, Jeong Soo Epitaxial C49-TiSi2 Formation on (100)Si Substrate Using TiNx and Its Electrical Characteristics as a Shallow Contact Metallization	6	1984
Caballero, J. A., see Ren, F.	10	3394
Cabral, C., Jr., see Hu, C.-K.	3	1001
Cachet, H.; Froment, Michel; Zenia, F. Corrosion of Tin Oxide at Anodic Potentials	2	442
Cady, W. A.; Varadarajan, M. RCA Clean Replacement	6	2064
Cahen, G. L., Jr., see Taylor, S. Ray	2	449
Cai, Ming; Park, Su-Moon Spectroelectrochemical Studies on Dissolution and Passivation of Zinc Electrodes in Alkaline Solutions	7	2125
Cai, Ming; Park, Su-Moon Oxidation of Zinc in Alkaline Solutions Studied by Electrochemical Impedance Spectroscopy	12	3895
Cai, S. M., see Zhang, S. L.	4	1394
Cairns, E. J., see Wen, S. J.	6	L138
Cairns, Elton J., see Ridgway, Paul L.	2	408
Cairns, Elton J., see Ridgway, Paul L.	2	412
Cairns, Elton J., see Deng, Zhongyi	5	1514
Cairns, Elton J., see Striebel, K. A.	6	1821
Cale, Timothy S., see Gobbert, Matthias K.	8	2624
Calvente, Juan Jose, see Marinkovic, Nebojsa S.	8	L171
Camacho, Luis, see Rodríguez-Amaro, Rafael	7	2132
Campabadal, Francesca, see Fonseca, L.	1	356
Carceller, J. E., see Palma, Alberto	8	2687
Carl, E., see Barthel, J.	11	3565
Carl, E., see Barthel, J.	11	3572
Carlin, Richard T., see Fuller, Joan	7	L145
Carlin, Richard T.; Trulove, Paul C.; De Long, Hugh C. Electrodeposition of Cobalt-Aluminum Alloys from Room Temperature Chloroaluminate Molten Salt	9	2747
Carnelm, R. D., see Stevenson, J. W.	9	2722
Carrado, Kathleen A., see Sandi, Giselle	5	L95
Carrejo, Juan P., see Jeon, Joong S.	1	277
Carro, P.; Hernández Creus, A.; Schilardi, P.; González, S.; Salvarezza, R. C.; Arvia, A. J. Topographic Changes of Polycrystalline Ag and Cu Electrodes in Acid Aqueous Solutions Resulting from a Prolonged Application of the Potential Reversal Technique	7	2294
Carter, Scott, see Liang, Ming	10	3117
Casado, Juan, see Brillas, Enrique	3	L49
Casady, Jeffrey B.; Luckowski, E. D.; Bozack, M.; Sheridan, D.; Johnson, R. W.; Williams, J. R. Etching of 6H-SiC and 4H-SiC Using NF3 in a Reactive Ion Etching System	6	1780
Casillas, Norberto, see James, Patrick	12	3853
Cerny, Charles L. A., see DeSalvo, Gregory C.	11	3652
Cescato, Lucila, see Soltz, David	9	2815
Chai, B. L. H., see Lee, J. W.	8	L189
Chainet, E., see Sánchez, H.	9	2790
Chambers, James Q.; Scaboo, Kris; Evans, C. Donald Cyclic Voltammetry of a TCNQ(O/-1) Solid-State Redox Couple. Role of Nucleation and Nonideality for a Square Scheme Surface Redox Reaction	10	3039
Chamelot, P.; Lafage, B.; Taxil, P. Studies of Niobium Electrocrystallization Phenomena in Molten Fluorides	8	1870
Chan, Kuang-Yang, see Yeh, Wen-Kuan	6	2053
Chan, Miu-ying, see Lo, Tai-Chin	11	3517
Chang, Chia-Chin; Wen, Ten-Chin Kinetics of Oxygen Reduction at IrO2-Coated Titanium Electrode in Alkaline Solution	5	1488
Chang, Hong-Young, see Kim, Jung-Hyung	9	2990
Chang, Li-Hsin; Cowden, William G.; Christiansen, Jim; Werho, Dennis; Theodore, N. David Is Ti Contamination in Si Wafer Processing an Issue?	7	2363
Chang, P.-H., see Chiu, R.-L.	3	984
Chang, Peng-Heng, see Huang, Chen-Tang	6	2044
Chang, T. C., see Yeh, Wen-Kuan	6	2053
Chapman, Thomas W., see Stadniychuk, Helena P.	5	1629
Chaput, F., see Liu, W.	3	879
Charbonnier, M.; Alami, M.; Romand, M. Plasma Treatment Process for Palladium Chemisorption onto Polymers before Electroless Deposition	2	472
Chassaing, Elizabeth; Nallet, P.; Trichet, M. F. Electrodeposition of Cu/Fe20Ni80 Magnetic Multilayers	5	L98
Chassigneux, B., see Mayolet, A.	1	330
Chau, Chung N., see Dang, Tuan A.	1	382
Cheh, Huk Y., see Chern, Ja-Wern E.	10	3139
Cheh, Huk Y., see Chern, Ja-Wern E.	10	3144
Chemla, M., see Bertagna, Valérie	11	3532
Chen, Antao; Kaviani, Kian; Rempel, Arun W.; Kalluri, Srinath; Steier, William H.; Shi, Yongping; Liang, Zhiyong; Dalton, Larry R. Optimized Oxygen Plasma Etching of Polyurethane-Based Electro-optic Polymer for Low Loss Optical Waveguide Fabrication	11	3648
Chen, C. J., see Yang, C. H.	11	3521
Chen, C.-P., see Sarangapani, S.	11	3791
Chen, Chao-Peng, see Pillay, Gautam	10	3410
Chen, Chengchang, see Jang, Guang-Way	8	2591
Chen, H.-Y., see Li, G.-X.	2	L24
Chen, Hongyuan, see Li, Genxi	7	L141
Chen, Jin-Jian, see Chyan, Oliver M. R.	1	92
Chen, Jin-Jian, see Chyan, Oliver M. R.	10	L235
Chen, K. Y.; Tseung, Alfred C. C. Effect of Nafion Dispersion on the Stability of PtWO3 Electrodes	9	2703
Chen, Liangyao, see He, Zhiping	8	2636
Chen, Linlin; Guay, Daniel; Lasia, Andrzej Kinetics of the Hydrogen Evolution Reaction on RuO2 and IrO2 Oxide Electrodes in H2SO4 Solution: An AC Impedance Study	11	3576
Chen, Liquan, see Wang, Zhaoxiang	5	1510
Chen, M.-C., see Chiou, J.-C.	3	990
Chen, Mao-Chish, see Yeh, Wen-Kuan	6	2053
Chen, N. K.; Lee, Chiapyng Nitridation-Retarded Diffusion of Phosphorus in <100> Silicon	1	352
Chen, Shenhao, see Wang, Chao	12	L283
Chen, Y. K., see Ren, F.	9	L217
Chen, Y.-M., see Hepel, Maria	2	498
Chen, Y., see Zhang, S. L.	4	1394
Chen, Yufei; Evans, James W. Thermal Analysis of Lithium-Ion Batteries	9	2708
Cheng, Guangjin, see Liu, Changwei	12	3874
Cheng, J. Y., see Benton, J. L.	4	1406
Cheng, Yang-Tse, see Li, Yang	1	120
Chern, Ja-Wern E.; Cheh, Huk Y. Modeling of Plated Through-Hole Processes. I. Current Distribution	10	3139
Chern, Ja-Wern E.; Cheh, Huk Y. Modeling of Plated Through-Hole Processes. II. Effect of Leveling Agents on Current Distribution	10	3144
Chi, P., see Zagozdzon-Wosik, W.	9	2981
Chien, Hsu Y., see Chyan, Oliver M. R.	1	92
Chien, Hsu-Yueh, see Chyan, Oliver M. R.	10	L235
Chikazawa, Masatoshi, see Mizushima, Io	6	1978
Chiou, J.-C.; Wang, H.-I; Chen, M.-C.	3	990

Author	Issue	Page
Dielectric Degradation of Cu/SiO2/Si Structure during Thermal Annealing		
Chirayil, Thomas A.; Zavalij, Peter Y.; Whittingham, M. Stanley	9	L193
A New Vanadium Dioxide Cathode		
Chiu, R.-L.; Chang, P.-H.; Tung, C.-H.	3	984
The Effect of Preheating Treatment on Anodic Al2O3 Formed on Sputtered Al Thin Films		
Cho, B.-J., *see* Kwon, S.-K.	2	639
Cho, Sung Hee; Yoo, Jae Soo; Lee, Jong Duk	10	L231
Synthesis and Low-Voltage Characteristics of CaTiO3:Pr Luminescent Powders		
Choi, C.-K., *see* Kim, Jung-Hyung	9	2990
Choi, E. S.; Park, S. K.; Lee, Hong H.	2	624
Growth and Resistivity Behavior of Copper Film by Chemical Vapor Deposition		
Choi, L. S., *see* Lee, H. S.	12	3825
Choi, Young-Sik; Kang, Tak	2	480
Three-Dimensional Calculation of Current Distribution in Electrodeposition on Patterned Cathode with Auxiliary Electrode		
Choutov, D. A., *see* Gillis, H. P.	11	L251
Christensen, E., *see* Matthiesen, F.	6	1793
Christensen, E., *see* Polyakova, L. P.	10	3178
Christensen, Kim N., *see* Violette, Katherine E.	2	649
Christensen, Kim, *see* Violette, Katherine E.	10	3290
Christensen, P. A., *see* Roy, S. C.	10	3073
Christiansen, Jim, *see* Chang, Li-Hsin	7	2353
Chu, Deryn; Gilman, Sol	5	1685
Methanol Electro-oxidation on Unsupported Pt-Ru Alloys at Different Temperatures		
Chyan, Oliver M. R.; Chen, Jin-Jian; Chien, Hsu Y.; Sees, Jennifer; Hall, Lindsey	1	92
Copper Deposition on HF Etched Silicon Surfaces: Morphological and Kinetic Studies		
Chyan, Oliver M. R.; Chen, Jin-Jian; Chien, Hsu-Yueh; Wu, JunJun; Liu, Min; Sees, Jennifer A.; Hall, L. H.	10	L235
A New Potentiometric Sensor for the Detection of Trace Metallic Contaminants in Hydrofluoric Acid		
Ciszek, T. F., *see* Menna, Pietro	6	L115
Claeys, C., *see* Rotondaro, Antonio L. P.	6	L118
Claeys, C., *see* Rotondaro, A. L. P.	9	3014
Clénet, F., *see* Peignon, M. C.	4	1347
Cocivera, Michael, *see* De Merchant, Julie	12	4054
Coffer, Jeffery L., *see* Zhang, Libing	2	L42
Coffer, Jeffery L., *see* Zhang, Libing	4	1390
Coffey, B. M., *see* Killian, J. G.	3	936
Cohen, H., *see* Aurbach, Doron	12	3809
Cohen, Yair, *see* Aurbach, Doron	11	3525
Cole, J. Vernon, *see* Merchant, Tushar P.	6	2035
Cole, M. W., *see* Ren, F.	10	3394
Coleman, D. H.; White, Ralph E.	6	1781
Linear Algebra Used to Determine Independent Half-Cell Equations		
Coleman, Darryl H.; Zheng, G.; Popov, B. N.; White, R. E.	6	1871
The Effects of Multiple Electroplated Zinc Layers on the Inhibition of Hydrogen Permeation Through an Iron Membrane		
Colgan, E. G., *see* Hu, C.-K.	3	1001
Collins, Brian T.; Ling, Mildred	7	2328
Synthesis and Cathodoluminescent Performance of Green-Emitting SrS:Mn Phosphors		
Comninellis, Ch., *see* Correa-Lozano, B.	1	203
Constantine, C., *see* Hong, J.	11	3656
Contreras, M. A., *see* Bhattacharya, Raghu Nath	3	854
Cook, Lee M., *see* Shen, James J.	6	2068
Correa-Lozano, B.; Comninellis, Ch.; De Battisti, A.	1	203
Physicochemical Properties of SnO2-Sb2O5 Films Prepared by the Spray Pyrolysis Technique		
Corrigan, D. A., *see* O'Grady, William E.	5	1613
Coté, Roland, *see* Fournier, Joël	3	919
Cowden, William G., *see* Chang, Li-Hsin	7	2353
Cox, J. David, *see* Walker, Charles W., Jr.	4	L80
Cox, James A.; Alber, Kathryn S.	6	L126
Amperometric Gas-Phase Sensor for the Determination of Ammonia in a Solid-State Cell Prepared by a Sol-Gel Process		
Creti, P., *see* Aricó, A. S.	12	3950
Cristiano, Filadelfo, *see* He, Zhiping	8	2636
Croce, F.; D'Aprano, A.; Nanjundiah, C.; Koch, V. R.; Walker, C. W.; Salomon, M.	1	154
Conductance of Solutions of Lithium tris(Trifluoromethanesulfonyl) Methide in Water, Acetonitrile, Propylene Carbonate, N,N-Dimethylformamide, and Nitromethane at 25 C		
Cutler, A. H., *see* Jiao, Jun	3	932
Czerwinski, F.; Szpunar, J. A.; Smeltzer, W. W.	9	3000
Steady-Stage Growth of NiO Scales on Ceria-Coated Polycrystalline Nickel		
Czerwinski, F.	10	3327
Grain Size-Internal Stress Relationship in Iron-Nickel Alloy Electrodeposits		
Da Cunha Belo, M., *see* Hakiki, N. E.	10	3088
d'Agostino, R., *see* Fracassi, Francesco	2	701
Dahn, J. R., *see* Xing, W.	10	3046
Dahn, J. R., *see* Xing, Weibing	11	3482
Dahn, Jeff R., *see* Gao, Yuan	1	100
Dahn, Jeffrey R., *see* Gao, Yuan	6	1783
Dahn, Jeffrey R., *see* Zheng, Tao	7	2137
Dahn, Jeffrey R., *see* Zhang, Meijie	9	2730
Dai, B.-T., *see* Liu, C.-W.	2	716
Dai, Hongli; Zawodzinski, Thomas A., Jr.	6	L107
Determination of Lithium Ion Transference Numbers by Electrophoretic Nuclear Magnetic Resonance		
Daikhin, L., *see* Tsionsky, V.	7	2240
Daimia, A.; Wiasmus, S.; Savinell, Robert F.; Liu, C. C.	2	556
The Anodic Behavior of Azide Ions at Carbon Electrodes in Neutral Electrolyte		
Daimia, A.; Savinell, Robert F.; Liu, C. C.	6	1827
The Anodic Behavior of Azide Ions on Gold and Platinum Electrodes in Neutral Electrolyte		
Dalton, Larry R., *see* Chen, Antao	11	3648
Dan, P., *see* Mengeritsky, E.	7	2110
Dandy, David S., *see* Liu, Huimin	3	1104
Dang, Tuan A.; Chau, Chung N.	1	302
Electron Spectroscopy for Chemical Analysis of Cool White Phosphors Coated with SiO2 Thin Film		
Dao, Le H., *see* Ye, Siyu	1	L7
D'Aprano, A., *see* Croce, F.	1	154
Das, D., *see* Hilpert, K.	11	3642
Datta, M., *see* Shenoy, Ravindra V.	2	544
Datta, M., *see* Shenoy, R. V.	7	2305
Datta, Ravindra, *see* Malhotra, Sanjiv	10	3058
Dautzenberg, G., *see* Appetecchi, G. Battista	1	6
Davenport, A. J., *see* Aldykiewicz, A. J., Jr.	1	147
Davenport, Alison J., *see* Schmuki, Patrik	2	574
Davenport, Alison J., *see* Schmuki, Patrik	12	3997
Davidson, I. J., *see* Shu, Z. X.	7	2230
Davis, Joseph C.; Hughes-Oliver, Jacqueline M.; Lu, Jye-Chi; Gyurcsik, Ronald S.	10	3404
Improved Within-Wafer Uniformity Modeling Through the Use of Maximum-Likelihood Estimation of the Mean and Covariance Surfaces		
Davy, Randall, *see* Newman, David S.	1	183
Day, Mary E.; Delfino, Michelangelo	1	264
Electron Cyclotron Resonance Plasma Etching of Native TiO2 on TiN		
Day, Nattie D., *see* Xu, Kang	9	L209
de Andrade, Adalgisa R.; Romero, José R.; Boodts, Julien F. C.	8	2452
Competitive Pathways in the Electrochemical Reduction of Citral		
De Battisti, A., *see* Correa-Lozano, B.	1	203
DeBecker, Benoit; West, Alan C.	2	486
Workpiece, Pattern, and Feature Scale Current Distributions		
Decker, F., *see* Rosolen, J. M.	8	2417
DeClements, Roger; Hirsche, Blayne L.; Granger, Michael C.; Xu, Jishou; Swain, Greg M.	7	L150
Freestanding Diamond Thin Films Grown on Glassy Carbon Substrates		
DeCrosta, David A.; Hackenberg, J. J.; Linn, J. H.	3	1079
Characterization of High Oxygen: Tetraethylorthosilicate Ratio Plasma-Enhanced Chemical Vapor Deposited Films		
Dedulle, J. M., *see* Pons, M.	11	3727
Deguchi, Yujiro, *see* Jin, Tetsuro	10	3333
Deleonibus, Simon	11	L259
High Temperature Local Oxidation of Silicon Field Isolation Morphological Characterization		
Delfino, Michelangelo, *see* Day, Mary E.	1	264
Delgado, Javier, *see* De Vidts, Pauline	10	3223
D'Elia, E.; Barcia, O. E.; Mattos, O. R.; Pébère, N.; Tribollet, Bernard	3	961
High-Rate Copper Dissolution in Hydrochloric Acid Solution		
Dellith, M.; Booker, G. R.; Kolbesen, B. O.; Bergholz, W.; Gelsdorf, F.	1	210
A Dislocation Formation Model of Trench-Induced Dislocations in Dynamic Random Access Memories		
Delmas, C., *see* Guerlou-Demourgues, L.	2	561
Delmas, Claude, *see* Rougier, A.	4	1168
Delmas, Claude, *see* Guerlou-Demourgues, L.	10	3083
De Long, Hugh C., *see* Carlin, Richard T.	9	2747
Delplancke, J. L., *see* Valova, E.	9	2804
Delplancke, J. L., *see* Armyanov, S.	11	3692
DeLuccia, J., *see* Kowal, K.	8	2471
De Merchant, Julie; Cocivera, Michael	12	4054
Properties of Zinc Telluride Containing Impurities Introduced during Spray Pyrolysis		
Denesuk, Matthew; Uhlmann, D. R.	9	L186
Site-Saturation Model for the Optical Efficiency of Tungsten Oxide-Based Devices		
Deng, C. Z., *see* Striebel, K. A.	6	1821
Deng, C.; Sigmon, T. W.; Wu, J. C.; Wybourne, M. N.	8	2678
Surface Evolution in a Pulsed Laser Induced Epitaxy Process of Submicron SiGe Wires		
Deng, Zhongyi; Spear, Jonathan D.; Rudnicki, James D.; McLamon, Frank R.; Cairns, Elton J.	5	1514
Infrared Photothermal Deflection Spectroscopy: A New Probe for the Investigation of Electrochemical Interfaces		
Denicolò, Ireno, *see* Wypych, Fernando	8	2522
DeSalvo, Gregory C.; Bozada, Christopher A.; Ebel, John L.; Look, David C.; Barrette, John P.; Cerny, Charles L. A.; Dettmer, Ross W.; Gillespie, James K.; Havasy, Charles K.; Jenkins, Thomas J.; Nakano, Kenichi; Pettiford, Carl I.; Quach, Tony K.; Sewell, James S.; Via, G. David	11	3652
Wet Chemical Digital Etching of GaAs at Room Temperature		
Desilva, Melvin; Shacham-Diamand, Yosef; Soave, Robert; Kim, Hansuk	4	L78
High Aspect Ratio Microtunnel Technique to Empirically Model Electroless Deposition		
DeSilva, Melvin J.; Shacham-Diamand, Yosi	11	3512
A Novel Seed Layer Scheme to Protect Catalytic Surfaces for Electroless Deposition		
Deslouis, Claude, *see* Orazem, Mark E.	3	948
Deslouis, Claude, *see* Orazem, Mark E.	12	3880
Dettlaff-Weglikowska, U., *see* Molassioti-Dohms, A.	8	2674
Dettmer, Ross W., *see* DeSalvo, Gregory C.	11	3652
De Vidts, Pauline; Delgado, Javier; White, Ralph E.	10	3223
A Multiphase Mathematical Model of a Nickel/Hydrogen Cell		
Devilliers, D, *see* Groult, H.	7	2093
de Wit, J. H. W., *see* Vossen, Jack P. T.	1	58
de Wit, J. H. W., *see* Vossen, Jack P. T.	1	66
de Wit, J. H. W., *see* Prins-Jansen, J. A.	5	1617
de Wit, J. H. W., *see* Vossen, J. P. T.	7	2272
Dhanasekaran, R., *see* Gopalakrishnan, N.	8	2631
Di Marco, P., *see* Kalinowski, Jan	1	315
Diama, F.; Aymard, L.; Dupont, L.; Tarascon, J-M.	12	3959
Effect of Mechanical Grinding on the Lithium Intercalation Process in Graphites and Soft Carbons		
Di Stefano, S., *see* Ratnakumar, B. V.	3	803
Ditchfield, R; Mendicino, M. A; Seebauer, E. G.	1	266
Adsorption of Chlorine on TiSi2: Application to Etching and Deposition of Silicide Films		
Dixit, G. A., *see* Lu, Jiong-Ping	12	L279
Djokic, Stojan S.	4	1300
Cementation of Copper on Aluminum in Alkaline Solutions		
Do, Quang Tho, *see* Le Guillanton, Georges	10	L223
Do, Quang Tho, *see* Boryczka, Stanislaw	12	4027
Doddapaneni, Narayan, *see* Ortiz, Bertha	6	1800
Dodelet, J. P., *see* Tamizhmani, G.	1	18
Dodelet, J.-P., *see* Fournier, Joël	3	919
Doeff, Marca M.; Richardson, Thomas J.; Kepley, Larry	8	2507
Lithium Insertion Processes of Orthorhombic NaxMnO2-Based Electrode Materials		
Doesburg, E. B. M., *see* Berger, R. J.	10	3186
Dokiya, Masayuki, *see* Horita, Teruhisa	4	1161
Dokiya, Masayuki, *see* Nishiyama, Haruo	7	2332
Dominey, L. A., *see* Koch, V. R.	3	798
Domínguez, Carlos, *see* Muñoz, Javier	6	2020
Donaton, R. A., *see* Baklanov, Mikhail R.	10	3245
Dong, Shaojun, *see* Liu, Changwei	12	3874
Donovan, S. M., *see* Ren, F.	9	L217
Dore, R. J., *see* Hill, Ian R.	11	3585
Doremus, Robert H.	6	1992
Diffusion of Oxygen in Silica Glass		
Dornberger, Erich; von Ammon, Wilfried	5	1648
The Dependence of Ring-Like Distributed Stacking Faults on the Axial Temperature Gradient of Growing Czochralski Silicon Crystals		
Dorval, N., *see* Ganz, M.	5	1654
dos Santos F., S. G., *see* Lopes, M. C. V.	3	1021
Doughty, D. A., *see* Srivastava, A. M.	12	4113
Downes, J., *see* Yan, H.	5	1577
Doyle, Marc; Newman, John; Gozdz, Antoni S.; Schmutz, Caroline N.; Tarascon, J. M.	6	1890
Comparison of Modeling Predictions with Experimental Data from Plastic Lithium-Ion Cells		
Draper, N., *see* Bardwell, Jennifer A.	11	L256
Draper, N., *see* Bardwell, Jennifer A.	9	2931
Dudel, Frank P.; Rieger, Melissa M.; Pickering, Jason P.; Gole, James L.; Kohl, Paul A.; Bottomley, Lawrence A.	8	L164
Photoluminescence in the Earliest stages of Porous Silicon Formation		
Dumin, David J.	11	3736
Thickness Dependence of Oxide Wearout		
Dumka, Deep C.; Riemenschneider, Rolf; Miao, Jianmin; Hartnagel, Hans L.; Singh, Babu R.	6	1945
Electrochemically Fabricated High-Barrier Schottky Contacts on n-InP and Their Application for Metal-Semiconductor-Metal Photodetectors		

Author	Issue	Page
Dunn, B., *see* Liu, W.	3	879
Dupont, L., *see* Diema, F.	12	3959
Dúsco, Csaba; Khanh, Nguyen Quock; Horváth, Zsolt; Bársony, István; Ulrisainen, Mikko; Lehto, Sari; Nieminen, Minna; Niinistö, L. Deposition of Tin Oxide into Porous Silicon by Atomic Layer Epitaxy	2	683
Dziobkowski, C., *see* Shapiro, Michael J.	7	L156
Eaglesham, D. J., *see* Benton, J. L.	4	1406
Ebel, John L., *see* DeSalvo, Gregory C.	11	3652
Ebi, D., *see* Nakashima, Sadao	1	244
Eda, Nobuo, *see* Uchida, Makoto	7	2245
Edholm, Bengt; Söderbärg, Anders; Bengtsson, Stefan Reliability Evaluation of Manufacturing Processes for Bipolar and MOS Devices on Silicon-on-Diamond Materials	4	1326
Egashira, Y, *see* Takahashi, Takahiro	4	1355
Egashira, Yasuyuki, *see* Takami, Seiichi	2	L38
Eguchi, Koichi; Kunisa, Yasuhiro; Adachi, Kentaro; Arai, Hiromichi Effect of Anodic Concentration Overvoltage on Power Generation Characteristics of Solid Oxide Fuel Cells	11	3699
Eguchi, M., *see* Yi, K.-W.	2	722
Ehrstein, J. R., *see* Rennex, Brian G.	1	255
Eidet, Trygve, *see* Kisza, Adolf	6	1840
Ein-Eli, Y., *see* Aurbach, Doron	12	3809
Ein-Eli, Yair; Thomas, S. R.; Koch, V. R. New Electrolyte System for Li-Ion Battery	9	L196
Ein-Eli, Yair; Thomas, Stacey R.; Koch, Victor; Aurbach, Doron; Markovsky, Boris; Schechter, Alexander Ethylmethylcarbonate, a Promising Solvent for Li-Ion Rechargeable Batteries	12	L273
Ekdunge, Per, *see* Sone, Yoshitsugu	4	1254
El-Hassani, A., *see* Pérez-Rodríguez, A.	3	1026
Ellul, Joseph P., *see* Boyd, John M.	11	3718
El Moustafid, Touriya, *see* Orazem, Mark E.	12	3880
Elothmani, Driss, *see* Le Guillanton, Georges	10	L223
Elothmani, Driss, *see* Boryczka, Stanislaw	12	4027
Elwenspoek, M., *see* Bressers, P. M. M. C.	5	1744
Emori, Masaomi, *see* Watanabe, Masahiro	12	3847
Enomoto, Hidehiko, *see* Fujiwara, Yutaka	8	2584
Ericsson, Per; Bengtsson, Stefan Influence of SC-1/SC-2 Cleaning on Wafer-Bonded Silicon Dioxide Structures	11	3722
Erné, Ben H.; Vanmaekelbergh, D.; Kelly, J. J. Morphology and Strongly Enhanced Photoresponse of GaP Electrodes Made Porous by Anodic Etching	1	305
Esaka, Takao, *see* Morimoto, Hideyuki	2	567
Esaka, Takao, *see* Kamata, Masahiro	6	1866
Esfandyari, J.; Schmeiser, C.; Senkader, S.; Hobler, G.; Murphy, B. Computer Simulation of Oxygen Precipitation in Czochralski-Grown Silicon during HI-LO-HI Anneals	3	995
Essalik, A., *see* Savadogo, O.	6	1814
Esteve, J., *see* Pérez-Rodríguez, A.	3	1026
Evans, C. Donald, *see* Chambers, James Q.	10	3039
Evans, James W., *see* Chen, Yufei	9	2708
Evans, R. J., *see* Bardwell, Jennifer A.	11	L256
Fan, Qinbai; Pu, Cong; Ley, Kevin L.; Smotkin, Eugene S. In Situ FTIR-Diffuse Reflection Spectroscopy of the Anode Surface in a Direct Methanol/Oxygen Fuel Cell	2	L21
Fan, Qinbai; Pu, Cong; Smotkin, Eugene S. In Situ Fourier Transform Infrared-Diffuse Reflection Spectroscopy of Direct Methanol Fuel Cell Anodes and Cathodes	10	3653
Fang, H., *see* Li, Genxi	7	L141
Fang, H.-Q., *see* Li, G.-X.	2	L24
Fang, Leuh, *see* Newman, David S.	1	183
Fang, W. C., *see* Fiorino, M. Elaine	8	2422
Farcy, J., *see* Baddour-Hadjean, R.	7	2083
Farmer, Joseph C.; Fix, David V; Mack, Gregory V.; Pekala, R. W.; Poco, John F Capacitive Deionization of NaCl and NaNO3 Solutions with Carbon Aerogel Electrodes	1	159
Farouk, Bakhtier, *see* Lee, Jung H.	4	1451
Farrens, Shari N., *see* Roberds, Brian E.	7	2368
Farrington, Gregory C., *see* Xu, J.	2	L44
Farrington, Gregory C., *see* Liu, W.	3	879
Farrington, Gregory C., *see* Kowal, K.	8	2471
Farrington, Gregory C., *see* Liu, W.	11	3590
Fawcett, W. Ronald, *see* Marinkovic, Nebojsa S.	8	L171
Fehribach, Joseph D., *see* Prins-Jansen, J. A.	5	1617
Feng, H.; Laverty, S. J.; Maguire, P.; Molloy, J.; Meenan, B. J. Electrochemically Reduced Polycrystalline Tin Oxide Thin Films. Surface Analysis and Electroplated Copper Adhesion	6	2048
Feng, Man, *see* Huang, Keqin	11	3630
Feng, Qi, *see* Kanoh, Hirofumi	8	2610
Fergus, Jeffrey W.; Hui, Shiqiang Solid Electrolyte Based Galvanic Cell for Measuring the Antimony Concentration in Molten Zinc	8	2496
Fernandez, A. M., *see* Bhattacharya, Raghu Nath	3	854
Fertig, D., *see* Smekalin, Konstantin	12	L281
Filippo, A., *see* Fracassi, Francesco	2	701
Finkbeiner, S., *see* Molassioti-Dohms, A.	8	2674
Fiordalice, R. W.; Hegde, Rama I.; Kawasaki, H. Orientation Control of Chemical Vapor Deposition TiN Film for Barrier Applications	6	2059
Fiorino, M. Elaine; Opila, R. L.; Konstadinidas, K.; Fang, W. C. Electrochemical and X-Ray Photoelectron Spectroscopy Characterization of Surface Films on MmNi3.5Al0.8Co0.7	8	2422
Fischer, A., *see* Kühne, Heinz	2	634
Fix, David V, *see* Farmer, Joseph C.	1	159
Fleig, J.; Jamnik, J.; Maier, J.; Ludvig, J. Inductive Loops in Impedance Spectroscopy Caused by Electrical Shielding	11	3636
Flemish, Joseph R.; Xie, K. Profile and Morphology Control during Etching of SiC Using Electron Cyclotron Resonant Plasmas	8	2620
Flis, J.; Zakroczymski, T. Impedance Study of Reinforcing Steel in Simulated Pore Solution with Tannin	8	2458
Föll, H., *see* Ottow, S.	1	385
Fonash, S. J., *see* Howland, William H.	6	1958
Fonseca, L.; Campabadal, Francesca Electrical Characteristics of Postoxidation Annealed Very Thin SiO2 Films. Potential Benefits of Rapid Thermal Processing	1	356
Forslund, Mikael; Leygraf, Christofer A Quartz Crystal Microbalance Probe Developed for Outdoor in Situ Atmospheric Corrosivity Monitoring	3	839
Fournès, L., *see* Guerlou-Demourgues, L.	10	3083
Fournier, Joël; Brossard, Louis; Tilquin, J.-Y.; Coté, Roland; Dodelet, J.-P.; Guay, Daniel; Ménard, Hugues Hydrogen Evolution Reaction in Alkaline Solution Catalytic Influence of Pt Supported on Graphite vs. Pt Inclusions in Graphite	3	919
Fox, Marye Anne, *see* Torimoto, Tsukasa	11	3712
Fox, Robert J., III, *see* Torimoto, Tsukasa	11	3712
Fracassi, Francesco; d'Agostino, R.; Lamendola, R.; Filippo, A.; Rapisarda, C.; Vasquez, P. Plasma Assisted Dry Etching of Cobalt Silicide for Microelectronics Applications	2	701
Frankel, Gerald S.; Scully, J. R.; Jahnes, C. V. Repassivation of Pits in Aluminum Thin Films	6	1834
Frankenthal, R. P., *see* Lobnig, Renate E.	4	1175
Frankenthal, R. P., *see* Lobnig, Renate E.	5	1539
Franklin, Thomas C.; Sankara Narayanan, T. S. N. The Effect of Blocking Additives on the Electrodeposition of Cadmium	9	2759
Franklin, Thomas C.; Lee, Kyung Ho; Maniangil, Ebba; Nnodimele, Remi Bismuth(III) and Copper(II) Oxides as Catalysts for the Electro-oxidation of Organic Compounds	11	3435
Fraser, J., *see* Schmuki, Patrik	10	3316
French, P. J., *see* Poenar, Daniel P.	3	968
Froment, Michel, *see* Cachet, H.	2	442
Fujii, Minoru, *see* Takami, Seiichi	2	L38
Fujimoto, Hiroyuki, *see* Tokumitsu, Katsuhisa	7	2235
Fujimoto, Hiroyuki, *see* Kanamura, Kiyoshi	9	2713
Fujimura, Shuzo, *see* Inomata, Carlos R.	9	2995
Fujine, Shigenori, *see* Kamata, Masahiro	6	1866
Fujino, Naohiko; Karino, Isamu; Kobayashi, Junji; Kuramoto, Kazuo; Ohmori, Masashi; Yasutake, Masatoshi; Wakiyama, Shigeru First Observations of 0.1 um Size Particles on Si Wafers Using Atomic Force Microscopy and Optical Scattering	12	4125
Fujisaki, Masanori, *see* Aoyama, Tomonori	3	977
Fujishima, Akira, *see* Futsuhara, Masanobu	11	3743
Fujita, Yuko, *see* Amine, Khalil	5	1607
Fujiwara, Takayuki, *see* Kumagai, Naoaki	3	1007
Fujiwara, Yutaka; Nagayama, Tomio; Nakae, Akira; Izaki, Masanobu; Enomoto, Hidehiko; Yamauchi, Eiko Electrodeposition of Fe-C Alloys from Baths Containing Dicarboxylic Acids with a Linear Alkyl Chain	8	2584
Fukidome, Hirokazu, *see* Matsumura, Michio	8	2683
Fukui, Keisuke, *see* Kondo, Kazuo	6	1880
Fukumoto, Yukio, *see* Inoue, Hiroshi	8	2527
Fukuoka, Yuko, *see* Uchida, Makoto	7	2245
Fukushima, Tomokatsu, *see* Ishihara, Tatsumi	6	1908
Fuller, Joan; Carlin, Richard T.; Osteryoung, Robert A. In Situ Optical Microscopy Investigations of Lithium and Sodium Film Formation in Buffered Room Temperature Molten Salts	7	L145
Fultz, B., *see* Witham, Charles	9	L205
Fultz, B., *see* Ratnakumar, B. V.	8	2578
Furst, Robert, *see* Brinkmann, Ralf Peter	6	1940
Furuichi, Ryusaburo, *see* Saeki, Isao	7	2228
Fusselman, S. P., *see* Roy, J. J.	8	2487
Futsuhara, Masanobu; Yoshioka, Katsuaki; Ishida, Yutaka; Takai, Osamu; Hashimoto, Kazuhito; Fujishima, Akira Micropattern Formation on ZnO Films Using a Photodissolution Reaction	11	3743
Gaberscek, M., *see* Kek, Darja	5	1690
Gaberscek, M., *see* Jamnik, J.	10	3148
Gaiseanu, Florin; Schröter, W. Contribution of Diffusion Interstitial Injection to Gettering of Metallic Impurities in Silicon	1	361
Galiano, Maria, *see* Robles, Stuardo	4	1414
Gamo, Takaharu, *see* Taniguchi, Noboru	6	1886
Ganem, J.-J., *see* Baumvol, I. J. R.	4	1426
Ganem, J.-J., *see* Baumvol, Israel J. R.	9	2938
Ganem, J.-J., *see* Baumvol, I. J. R.	9	2946
Ganz, M.; Dorval, N.; Lefebvre, M.; Péalat, M.; Loumagne, F.; Langlais, F. In Situ Optical Analysis of the Gas Phase during the Deposition of Silicon Carbide from Methyltrichlorosilane	8	1684
Gao, F., *see* Killian, J. G.	3	936
Gao, Yuan; Dahn, Jeff R. Synthesis and Characterization of Li1+xMn2-xO4 for Li-Ion Battery Applications	1	100
Gao, Yuan; Dahn, Jeffrey R. The High Temperature Phase Diagram of Li1+xMn2-xO4 and Its Implications	6	1783
Garcia, V. M.; George, P. J.; Nair, M. T. S.; Nair, P. K. CdSe:In2O3 Coatings with n-Type Conductivity Produced by Air Annealing of CdSe-In Thin Films	9	2892
Garcon, I., *see* Pons, M.	11	3727
Gard, Gary L., *see* Holcomb, Nelson R.	4	1297
Gardeniers, J. G. E., *see* Bressers, P. M. M. C.	5	1744
Garofalini, Stephen H., *see* Kulp, D. T.	7	2211
Garrido, Blas; Montserrat, J.; Morante, J. R. The Role of Chemical Species in the Passivation of <100> Silicon Surfaces by HF in Water-Ethanol Solutions	12	4089
Garrido, J., *see* Gomez, F. J.	1	271
Gau, W.-J.; Sun, I-W. Spectroscopic and Electrochemical Studies of Europium(III) Chloride in Aluminum Chloride-1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten Salts	3	914
Gau, Wei-Jyh; Sun, I-Wen Electrochemical and Spectroscopic Studies of Ytterbium in the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten Salt	1	170
Gauckler, L. J., *see* Sasaki, K.	2	530
Ge, Jisheng; Johnson, Dennis C. Electrocatalysis of Anodic Oxygen-Transfer Reactions. Temperature Effects on Oxidation of Ethylamine, Alanine, and Ammonia at Anodized Ag-Pb Eutectic Alloy Electrodes	8	2543
Geisdorf, F., *see* Dellih, M.	1	210
Genders, J. David; George, Effie Liolios; Pletcher, Derek A Study of the Transport of Formaldehyde and Ethylene Glycol Through Ion Permeable Membranes in Electrolytic Cells	1	175
George, Effie Liolios, *see* Genders, J. David	1	175
George, Mark; Hass, Dennis W.; Beck, S. E.; Young, K.; Bohling, D. A.; Voloshin, G.; Lane, A. P. Reaction of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione (H+hfac) with Iron and Iron Oxide Thin Films	10	3257
George, P. J., *see* Garcia, V. M.	9	2892
Georgieva, J., *see* Armyanov, S.	11	3692
Gerouki, A.; Goldner, M. A.; Goldner, Ronald B.; Haas, T. E.; Liu, T. Y.; Slaven, S. Density of States Calculations of Small Diameter Single Graphene Sheets	11	L362
Gerth, Lutz; Lapicque, Francois Importance of Surface Preparation in Electrochemical Investigations of the Copper System in Dilute Copper Sulfate Solutions	12	3910
Gervasio, Don, *see* Kanamura, Kiyoshi	9	2765
Gewirth, Andrew A., *see* Richard, Katherine M.	7	2088
Gewirth, Andrew A., *see* Schmidt, Wolfgang U.	10	3122
Gibaud, A., *see* Xing, Weibing	11	3482
Gileadi, E., *see* Tsionsky, V.	7	2240
Gillespie, James K., *see* DeSalvo, Gregory C.	11	3652
Gillis, H. P.; Choulov, D. A.; Martin, K. P.; Pearton, S. J.; Abernathy, C. R. Low Energy Electron-Enhanced Etching of GaN/Si in Hydrogen Direct Current Plasma	11	L251
Gilman, Sol, *see* Chu, Deryn	8	1685
Ginley, David S.,		

Author	Issue	Page
see Bhattacharya, Raghu Nath	1	97
Giordano, N., see Aricó, A. S.	12	3960
Gobbert, Matthias K.; Ringhofer, Christian A.; Cale, Timothy S. Mesoscopic Scale Modeling of Microloading during Low Pressure Chemical Vapor Deposition	8	2624
Gobrecht, Jens, see Padeste, Celestino	12	3890
Gödickemeier, M., see Sasaki, K.	2	530
Goldner, M. A., see Gerouki, A.	11	L262
Goldner, Ronald B.; Liu, T.-Y.; Slaven, Simon A Transient Method for Measuring Diffusion Coefficients of Thin Film Battery Electrodes. Results for LiyCoO2 and LixC6 Thin Films	6	L129
Goldner, Ronald B., see Gerouki, A.	11	L262
Gole, James L., see Dudel, Frank P.	8	L164
Gomes, Maria A. B., see Wypych, Fernando	8	2522
Gomes, W. P., see Vermeir, I. E.	4	1319
Gomez, F. J.; Garrido, J.; Martinez, J.; Piqueras, J. Rapid Thermal Annealing Behavior of Amorphous SiC Layers Deposited by Electron Cyclotron Resonance Plasma	1	271
Gomis, J. A.; Morallón, E.; Montiel, V.; Aldaz, A. Electrosynthesis of p-Hydroxybenzaldehyde from p-Hydroxymandelic Acid Using a Platinum Electrode	10	3166
Gonzalez, Ernesto R. Interpretation of the Power Response of a Fuel Cell with a Quadratic Logistic Differential Equation	6	L113
González, Ignacio, see Palomar-Pardavé, Manuel	5	1551
González, S., see Carro, P.	7	2294
Goodenough, John B., see Huang, Keqin	11	3630
Goossens, Albert Potential Distribution in Semiconductor Particles	6	L131
Gopalakrishnan, N.; Dhanasekaran, R. Thermodynamic Analysis of GaAs1-xPx Vapor Phase Epitaxy	8	2631
Gordon, Roy G., see Musher, Joshua N.	2	736
Gorenstein, Annette; Lourenco, A.; Scarminio, J. Optomechanical Studies of Lithium Intercalation in Amorphous Molybdenum Thin Films	9	2822
Gores, H. J., see Barthel, J.	11	3565
Gores, H. J., see Barthel, J.	11	3572
Gösele, U., see Tong, Q.-Y.	5	1773
Gottesfeld, Shimshon, see Ren, Xiaoming	1	L12
Gottesfeld, Shimshon, see Springer, Thomas E.	2	587
Gozdz, Antoni S., see Doyle, Marc	6	1890
Graham, M. J., see Hussey, Rex J.	1	221
Graham, M. J., see Schmuki, Patrik	10	3316
Granger, Michael C., see DeClements, Roger	7	L150
Grantham, L. F., see Roy, J. J.	8	2487
Grantscharova, E., see Anderson, Alfred B.	6	2075
Grätzel, M., see Kavan, Ladislav	2	394
Grätzel, Michael, see Papageorgiou, N.	10	3099
Gravereau, P., see Rougier, A.	4	1168
Gray, Gary E.; Winnick, Jack; Kohl, Paul A. Plating and Stripping of Sodium from a Room Temperature 1,2-Dimethyl-3-propylimidazolium Chloride Melt	7	2262
Gray, Gary E.; Winnick, Jack; Kohl, Paul A. Plating and Stripping of Sodium from a Room Temperature 1-Methyl-3-propylimidazolium Chloride Melt	12	3820
Griessen, R., see Notten, Peter H. L.	10	3348
Grimmett, D. L., see Roy, J. J.	8	2487
Groult, H.; Devilliers, D; Kumagai, Naoaki; Nakajima, T; Matsuo, Y. Vanadium Oxide Fluoride-Graphite Intercalation Compounds: Structural Characteristics and Electrochemical Insertion of Lithium Cations	7	2093
Grundmeier, G., see Lobnig, Renate E.	4	1175
Grundmeier, G., see Lobnig, Renate E.	5	1539
Gschwend, R., see Sasaki, K.	2	530
Gu, Jingyan, see Kahanda, G. L. M. K. S.	4	1214
Guan, Y. Charles; Han, Kenneth N. The Electrochemical Study on the Dissolution Behavior of Gold in Ammoniacal Solutions at Temperatures above 100 C	6	1875
Guay, D., see Tamizhmani, G.	1	18
Guay, Daniel, see Fournier, Joël	3	919
Guay, Daniel, see Chen, Linlin	11	3576
Guerlou-Demourgues, L.; Delmas, C. Electrochemical Behavior of the Manganese-Substituted Nickel Hydroxides	2	561
Guerlou-Demourgues, L.; Fournès, L.; Delmas, Claude In Situ 57Fe Mossbauer Spectroscopy Study of the Electrochemical Behavior of an Iron-Substituted Nickel Hydroxide Electrode	10	3083
Guillén, C.; Herrero, J. Improved Selenization Procedure to Obtain CuInSe2 Thin Films from Sequentially Electrodeposited Precursors	2	493
Guldi, Richard L.; Wyke, David R. Repair of Plasma Etch Related Gate Perimeter Damage Using Low Temperature Oxidation	2	628
Gumbs, Ronald W., see Jang, Guang-Way	8	2591
Gunaratne, R., see Kanamura, Kiyoshi	9	2785
Guo, J., see Le, D. B.	7	2099
Guo, Yongland; Hua, Shounan; Xu, Huaiwei; Yang, Yanzhao Kinetics of Oxidation Processes on Lead Electrode in H2SO4. III. A Study of the Growth of the PbO Layer by Linear Sweep Voltammetry	4	1157
Guohua, Li; Ikuta, H.; Uchida, T.; Wakihara, M. The Spinel Phases LiMyMn2-yO4 (M = Co, Cr, Ni) as the Cathode for Rechargeable Lithium Batteries	1	178
Gür, Turgut M., see Sunde, Svein	11	3497
Guseva, M. B., see Obraztsov, A. N.	3	1112
Gyurcsik, Ronald S., see Davis, Joseph C.	10	3404
Haas, T. E., see Gerouki, A.	11	L262
Habazaki, H.; Shimizu, K.; Skeldon, P.; Thompson, G. E.; Wood, G. C. The Composition of the Alloy/Film Interface during Anodic Oxidation of Al-W Alloys	8	2465
Habuka, Hitoshi; Mayusumi, Masanori; Tsunoda, Hitoshi; Katayama, Masataka Effect of Transport Phenomena on Boron Concentration Profiles in Silicon Epitaxial Wafers	2	677
Hackenberg, J. J., see DeCrosta, David A.	3	1079
Haga, Hiroyo, see Iwasaki, Toshio	10	3383
Hagfeldt, Anders, see Ransmo, Hakan	10	3173
Hagiwara, K., see Takahashi, Takahiro	4	1355
Haji-Sheikh, A., see Roy, Sudipto R.	4	1362
Hakiki, N. E.; Da Cunha Belo, M. Electronic Structure of Passive Films Formed on Molybdenum-Containing Ferritic Stainless Steels	10	3068
Hall, L. H., see Chyan, Oliver M. R.	10	L235
Hall, Lindsey, see Chyan, Oliver M. R.	1	92
Hall, S., see Wu, Z. Y.	9	2972
Hall, S.; Wainwright, S. P. On Electron Conduction and Trapping in SIMOX Dielectric	10	3354
Halpert, G., see Ratnakumar, B. V.	3	803
Hamakawa, Satoshi, see York, Andrew P. E.	11	L249
Hamakawa, Satoshi; Hayakawa, Takashi; York, Andrew P. E.; Tsunoda, Tatsuo; Yoon, Young S.; Suzuki, Kunio; Shimizu, Masao; Takehira, Katsuomi Selective Oxidation of Propene Using an Electrochemical Membrane Reactor with CeO2-Based Solid Electrolyte	4	1264
Hames, Greg, see Zhang, Kevin X.	2	744
Hamnett, A., see Roy, S. C.	10	3073
Hampden-Smith, Mark, see Jain, Sanjeev	11	3762
Hamstra, M. A., see Marín, F. Iranzo	3	1137
Han, Jae Hyun; Rhee, Shi-Woo; Moon, Sang H. Pyrolysis Mechanism of Silanes, Difluorosilane, and Their Mixtures	6	1996
Han, Kenneth N., see Guan, Y. Charles	6	1875
Han, L. T., see Mansfeld, Florian	12	L288
Hansen, Douglas C.; McCafferty, E. The Effect of Various Naturally Occurring Metal-Binding Compounds on the Electrochemical Behavior of Aluminum	1	114
Hansen, Ellen Marie; Kjelstrup, Signe Application of Nonequilibrium Thermodynamics to the Electrode Surfaces of Aluminum Electrolysis Cells	11	3440
Hara, Tohru, see Sakiyama, Keizo	3	L87
Hara, Tohru; Onda, Takayuki; Kakizaki, Yasuo; Oshima, Sotaro; Kitamura, Taira; Kajiyama, Kenji; Yoneda, Tomoaki; Sekine, Kohei; Inoue, Morio Delaminations of Thin Layers by High Dose Hydrogen Ion Implantation in Silicon. Formation of Thin Silicon on Insulator Silicon Layers	8	L166
Hara, Tohru; Kitamura, T.; Tanaka, Masaru; Kobayashi, Takuya; Sakiyama, Keizo; Onishi, Sigeo; Ishihara, Kazuya; Kudo, Jun; Kino, Yukihiro; Yamashita, Noboru Barrier Effect of TaSiN Layer for Oxygen Diffusion	11	L284
Harada, H., see Takeishi, Shunsaku	1	381
Harris, S. J., see Yan, H.	5	1577
Harris, Thomas M.; St. Clair, Jennifer Testing the Role of Metal Hydrolysis in the Anomalous Electrodeposition of Ni-Fe Alloys	12	3918
Hart, F. X., see Wang, Bo	10	3203
Hartig, Michael J.; Tobin, Philip J. A Model for the Gas-Phase Chemistry Occurring in a Furnace N2O Oxynitride Process	5	1753
Hartnagel, H. L., see Schübler, Martin	4	L73
Hartnagel, Hans L., see Dumka, Deep C.	6	1945
Harz, Michael; Brückner, Winfried Stress Reduction in Anodically Bonded Silicon and Borosilicate Glass by Thermal Treatment	4	1409
Hasei, Masaharu, see Miura, Norio	2	L33
Hasenack, Claus Martin, see Lopes, M. C. V.	3	1021
Hashimoto, Kazuhito, see Futsuhara, Masanobu	11	3743
Hasty, Turner, see Liu, Chong-yang	6	1914
Hattori, Shuzo, see Shao, Chunlin	12	4109
Hattori, Takeshi, see Saga, Koichiro	10	3279
Hatzopoulos, N., see Siapkas, D. I.	9	3019
Havasy, Charles K., see DeSalvo, Gregory C.	11	3682
Havemann, R. H., see Lu, Jiong-Ping	12	L279
Hayakawa, Takashi, see York, Andrew P. E.	11	L249
Hayakawa, Takashi, see Hamakawa, Satoshi	4	1264
Hayashi, M., see Hyodo, T.	11	L266
Haynes, T. E., see Benton, J. L.	4	1406
He, Y., see Mansour, Azzam N.	2	614
He, Zhiping; Cristiano, Filadelfo; Zhou, Zuyao; Qian, Youhua; Chen, Lisngyao; Lin, Chenglu; Hemment, P. L. F.; Zou, Shichang Transmission Electron Microscopy and Spectroscopic Ellipsometry Studies of Damage Layer Induced by Large Tilt Angle Ion Implantation	8	2636
Headley, T. J., see Medernach, John W.	2	725
Hebb, Jeffrey P.; Jensen, Klavs F. The Effect of Multilayer Patterns on Temperature Uniformity during Rapid Thermal Processing	3	1142
Hebb, Jeffrey P., see Merchant, Tushar P.	6	2035
Hebert, Kurt R., see Wu, Xiaolin	1	83
Hebert, Kurt R., see Wang, Mei-Hui	9	2827
Hegde, Rama I., see Fiordalice, R. W.	6	2069
Heikonen, J.; Vuorilehto, K.; Noponen, T. A Mathematical Model for a Thick Porous Metal-Hydride Electrode in Discharge	12	3972
Heilbig, R., see Wolf, Rene	3	1037
Hemment, P. L. F., see He, Zhiping	8	2636
Hemment, P. L. F., see Siapkas, D. I.	9	3019
Hemmes, K., see Prins-Jansen, J. A.	5	1617
Hench, L. L., see Abe, Yoshihiro	1	144
Hepel, Maria; Chen, Y.-M.; Stephenson, Richard Effect of the Composition of Polypyrrole Substrate on the Electrodeposition of Copper and Nickel	2	498
Hermann, A. M., see Bhattacharya, Raghu Nath	3	854
Hernández Creus, A., see Carro, P.	7	2294
Herrero, J., see Guillén, C.	2	493
Hess, Dennis W., see Zhao, Qiang	9	2896
Hess, Dennis W., see George, Mark	10	3257
Heyns, M. M., see Rotondaro, Antonio L. P.	6	L118
Heyns, M. M., see Li, Li	1	233
Heyns, M. M., see Rotondaro, A. L. P.	9	3014
Heyns, M. M., see Teerlinck, I.	10	3323
Heyrovská, Raji Physical Electrochemistry of Strong Electrolytes Based on Partial Dissociation and Hydration. Quantitative Interpretation of the Thermodynamic Properties of NaCl(aq) from "Zero to Saturation"	6	1789
Hichwa, B. P., see Rafla-Yuan, Howard	7	2341
Hierlemann, Matthias, see Brinkmann, Ralf Peter	6	1940
Hierlemann, Matthias, see Simka, H.	8	2646
Hightower, A., see Witham, Charles	9	L205
Hightower, A., see Ratnakumar, B. V.	8	2578
Higuchi, S., see Tatsumi, K.	6	1923
Hikone, Tsuneo, see Nishimura, Masashi	10	L243
Hill, Ian R.; Dore, R. J. Dehydroxylation of LiAlCl4.xSO2 Electrolytes Using Chlorine	11	3585
Hill, T. A., see Medernach, John W.	2	725
Hilpert, K.; Das, D.; Miller, M.; Peck, D. H.; Weiß, R. Chromium Vapor Species over Solid Oxide Fuel Cell Interconnect Materials and Their Potential for Degradation Processes	11	3642
Hirai, Toshiro; Shindo, Kazuhiko; Ogata, Tsutomu Charge and Discharge Characteristics of Thermochargeable Galvanic Cells with an [Fe(CN)6]4-/[Fe(CN)6]3- Redox Couple	4	1305
Hirata, Akihiko; Hosoya, T.; Machida, K.; Takaoka, H.; Akiya, H. A WSixN Diffusion Barrier Formed with Electron Cyclotron Resonance Nitrogen Plasma	11	3747
Hirayama, Makoto, see Kobayashi, Kiyoteru	4	1459
Hirayama, Makoto, see Kobayashi, Kiyoteru	10	3377
Hirotsu, Takahiro, see Kanoh, Hirofumi	3	905
Hirotsu, Takahiro, see Kanoh, Hirofumi	8	2610
Hirsche, Blayne L., see DeClements, Roger	7	L150
Hishinuma, Masakazu, see Yasuda, Isamu	5	1583
Hobbs, D. T., see Kalu, E. E.	10	3094
Hobler, G., see Esfandyari, J.	3	995
Hobson, W. S., see Stradtmann, R. R.	9	L219
Hobson, W. S., see Pearton, S. J.	2	752
Hobson, W. S., see Lee, J. W.	3	1093
Hobson, W. S., see Lee, J. W.	6	2010
Hobson, W. S., see Ren, F.	10	3394
Hobson, W. S., see Hong, J.	11	3656
Hoff, H. A., see Waytena, G. L.	7	2392

Author	Issue	Page
Hoffman, T. L., see Hussey, Rex J.	1	221
Hoffmann, P. M., see Oskam, Gerko	8	2531
Holber, W. M., see Olson, R. J., Jr.	1	288
Holcomb, Nelson R.; Nixon, Paul G.; Gard, Gary L.; Nafshun, Richard L.; Lerner, Michael M. — Synthesis of LiCH(SO2CF3)2 and Ionic Conductivity of Polyether-Salt Complexes	4	1297
Homma, Tetsuya — Characteristics of SiOF Films Formed Using Tetraethylorthosilicate and Fluorotriethoxysilane at Room Temperature by Chemical Vapor Deposition	2	707
Homma, Tetsuya — Properties of Fluorinated Silicon Oxide Films Using Fluorotriethoxysilane for Interlayer Dielectrics in Multilevel Interconnections	3	1084
Homma, Tetsuya, see Kubo, Akira	5	1769
Homma, Yoshikazu, see Saito, Kazuyuki	12	4101
Hong, J., see Lee, J. W.	6	2010
Hong, J.; Lee, J. W.; Lambers, E. S.; Abernathy, C. R.; Pearton, S. J.; Constantine, C.; Hobson, W. S. — Comparison of ICl and IBr Plasma Chemistries for Etching of InGaAlP Alloys	11	3856
Hong, Q. Z., see Lu, Jiong-Ping	12	L279
Hongo, K., see Ohkubo, Suehiro	10	3273
Hongo, Kazutaka, see Nogami, Gyoichi	11	3800
Hönle, W., see Molassioti-Dohms, A.	8	2674
Horányi, T. S.; Tüttő, P.; Kovacsics, Cs. — Identification Possibility of Metallic Impurities in p-Type Silicon by Lifetime Measurement	1	216
Horiba, Tatsuo, see Kumagai, Naoaki	3	1007
Horii, Noritaka, see Kotaki, Toshiro	6	2003
Horita, Teruhisa; Sakai, Natsuko; Kawada, Tatsuya; Yokokawa, Harumi; Dokiya, Masayuki — Oxidation and Steam Reforming of CH4 on Ni and Fe Anodes under Low Humidity Conditions in Solid Oxide Fuel Cells	4	1161
Horita, Teruhisa, see Nishiyama, Haruo	7	2332
Horn, J., see Schübler, Martin	4	L73
Horváth, Zsolt, see Dücso, Csaba	2	683
Hoshina, Yasuko, see Ikoma, Munehisa	6	1904
Hoshino, Masakazu, see Whitby, Evan	10	3397
Hosoya, T., see Hirata, Akihiko	11	3747
Hotta, Tadahiko, see Yamaha, Takahisa	3	1043
Houlihan, Francis M., see Shilling, Marcia L.	2	691
Howard, A. J., see Shul, R. J.	10	3285
Howell, Bennet C., III, see Shin, Eun-Mi	5	1562
Howland, William H.; Fonash, S. J. — On Semiconductor Surface Evaluation Using the Effective Surface Recombination Speed for Schottky-Coupled Photovoltage Measurements	6	1958
Hsiao, M. W.; Adzic, R. R.; **Yeager, E. B.** — Electrochemical Oxidation of Glucose on Single Crystal and Polycrystalline Gold Surfaces in Phosphate Buffer	3	759
Hsiao, R.; Miller, D. — Etching of Tantalum in Fluorine-Containing High Density Plasmas	10	3266
Hsiung, T. H.; Ketkar, S. N.; Wallace, J. B. — Using 13CO and 18O18O Tracers to Study the Removal of Parts per Million CO and O2 from N2 over a Ni-Al2O3 Catalyst	8	2429
Hsu, W. Y., see Lu, Jiong-Ping	12	L279
Hu, C.-C., see Lee, Y.-S.	4	1218
Hu, C.-K.; Lee, K. Y.; Lee, K. L.; Cabral, C., Jr.; Colgan, E. G.; Stanis, C — Electromigration Drift Velocity in Al-Alloy and Cu-Alloy Lines	3	1001
Hu, Hongxing, see Liu, Meilin	6	L109
Hu, Hongxing; Liu, Meilin — Silver-BaCe0.8Gd0.2O3 Composites as Cathode Materials for SOFCs Using BaCeO3-Based Electrolytes	3	899
Hua, Shouman, see Guo, Yongland	4	1157
Huang, Biying, see Wang, Zhaoxiang	5	1510
Huang, Chen-Tang; Chang, Peng-Heng; Shie, Jin-Shown — Photoassisted Liquid-Phase Deposition of Silicon Dioxide	6	2044
Huang, F. M., see Zhang, S. L.	4	1394
Huang, Hong, see Wang, Zhaoxiang	5	1510
Huang, Kecjin; Feng, Man; Goodenough, John B.; Schmerling, Michael — Characterization of Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic Fuel Cell	11	3630
Huang, Peng-nian; Petric, Anthony — Superior Oxygen Ion Conductivity of Lanthanum Gallate Doped with Strontium and Magnesium	5	1844
Huang, Shun-Ming, see Isaacs, Hugh S.	8	L178
Huang, Shun-Ming, see Isaacs, Hugh S.	12	L277
Huebner, Wayne, see Reed, David M.	5	1568
Huff, Howard R., see Bullis, W. M.	4	1399
Hughes, H. L., see Afanas'ev, V. V.	1	347
Hughes, H. L., see Afanas'ev, V. V.	2	695
Hughes-Oliver, Jacqueline M., see Davis, Joseph C.	10	3404
Hui, Shiqiang, see Fergus, Jeffrey W.	8	2498
Hulse, J. E., see Landheer, D.	5	1681
Hung, Chen-Jen, see Breyfogle, Bryan E.	9	2741
Hurd, T. Q., see Rotondaro, A. L. P.	9	3014
Hurley, D. L., see Smith, Alan R.	1	339
Hussey, Charles L., see Pitner, William R.	1	130
Hussey, Charles L., see Mitchell, John A.	11	3448
Hussey, Rex J.; Hoffman, T. L.; Tao, Y.; Graham, M. J. — A Study of Nitrogen Incorporation during the Oxidation of Si(100) in N2O at High Temperatures	1	221
Hutchins, M. G., see Svegl, F.	5	1532
Hutton, R. S., see Shilling, Marcia L.	2	691
Hwang, Bing Joe, see Lo, Yi Ling	7	2158
Hwang, Euijin, see Mo, Yibo	1	37
Hwang, Hyunsang, see Byun, Jeong Soo	3	L56
Hyodo, T.; Hayashi, M.; Miura, Norio; Yamazoe, N. — Catalytic Activities of Rare-Earth Manganites for Cathodic Reduction of Oxygen in Alkaline Solution	11	L266
Ibbotson, Dale E., see Maynard, Helen L.	6	2029
Ichimura, Tatsuya, see Morita, Masayuki	2	L26
Ilo, Motoaki, see Miura, Norio	10	L241
Ikeda, Koichi; Nakayama, Satoshi; Maeda, Masahiko — Characteristics of Silicon Dioxide Films on Patterned Substrates Prepared by Atmospheric-Pressure Chemical Vapor Deposition Using Tetraethoxysilane and Ozone	5	1715
Ikoma, Munehisa; Hoshina, Yasuko; Matsumoto, Isao; Iwakura, Chiaki — Self-Discharge Mechanism of Sealed-Type Nickel/Metal-Hydride Battery	6	1904
Ikuma, Yasuro; Murakami, Takeshi — Oxygen Tracer Diffusion in Polycrystalline In2O3	8	2698
Ikuta, H., see Guohua, Li	1	178
Iluta, Hiromasa, see Uchida, Takashi	8	2606
Imai, Hiroaki, see Watanabe, Tadaharu	8	2654
Imai, Kazuo, see Itsumi, Manabu	7	2357
Imai, Keitaro, see Aoyama, Tomonori	3	977
Imai, M., see Nakashima, Sadao	1	244
Imamura, T., see Tatsumi, K.	6	1923
Imamura, Y., see Mitani, Katsuhiko	3	1151
Imhoff, L., see Boutevillle, A.	10	3251
Inaba, Minoru; Yoshida, Hiroyuki; Ogumi, Zempachi — In Situ Raman Study of Electrochemical Lithium Insertion into Mesocarbon Microbeads Heat-Treated at Various Temperatures	8	2572
Inaba, Yutaka, see Kobayashi, Kiyoteru	4	1459
Inananmi, Ryoichi; Morita, Shinzo — Effects of Transmitted Electrons on Inductively Coupled Plasma Etching of a Si Wafer Through an Al Mask	11	3752
Inananmi, Ryoichi; Uchida, Toshihito; Morita, Shinzo — Si Wafer Etching with Synchrotron Radiation in a CF4 Gas Atmosphere	11	3754
Inganäs, O., see Yohannes, Teketel	7	2310
Inomata, Carlos R.; Ogawa, Hiroki; Ishikawa, Kenji; Fujimura, Shuzo — Infrared Spectroscopy Study of Chemical Oxides Formed by a Sequence of RCA Standard Cleaning Treatments	9	2995
Inoue, Hiroshi, see Iwakura, Chiaki	4	L71
Inoue, Hiroshi; Yamataka, Katsuhiro; Fukumoto, Yukio; Iwakura, Chiaki — Kinetics of the Hydrogen Evolution Reaction at Various Zr-Based Laves-Phase Hydrogen-Storage Alloy Electrodes	8	2527
Inoue, Morio, see Hara, Tohru	8	L186
Inoue, T., see Roy, J. J.	8	2487
Isaacs, H. S., see Schmuki, Patrik	10	3316
Isaacs, Hugh S., see Aldykiewicz, A. J., Jr.	1	147
Isaacs, Hugh S.; Huang, Shun-Ming; Jovancicevic, Vladimir — Location of Corrosion on Iron and Carbon Steel Surfaces with Crevices	8	L178
Isaacs, Hugh S.; Huang, Shun-Ming — Behavior of Dissolved Molybdenum during Localized Corrosion of Austenitic Stainless Steel	12	L277
Isaacson, I. P., see Waytena, G. L.	7	2392
Isaev, Nick, see Wang, Xiaoping	4	1201
Ishida, Yutaka, see Futsuhara, Masanobu	11	3743
Ishihara, Kazuya, see Hara, Tohru	11	L264
Ishihara, Tatsumi; Sato, Shinobu; Fukushima, Tomokatsu; Takita, Yusaku — Capacitive Gas Sensor of Mixed Oxide CoO-In2O3 to Selectively Detect Nitrogen Monoxide	6	1908
Ishikawa, Kenji, see Inomata, Carlos R.	9	2995
Ishikawa, Masashi, see Morita, Masayuki	2	L26
Isobe, Chiharu, see Watanabe, Koji	9	3008
Isono, Hirohito, see Kotaki, Toshiro	6	2003
Issaev, Nick, see Wang, Xiaoping	11	3477
Itaya, Kingo, see Ye, J. H.	12	4012
Ito, Katsuhiko, see Sato, Yuichi	10	L225
Ito, Minoru; Murakami, Yasushi; Kaji, Hayato; Yahikozawa, Kiyochika; Takasu, Yoshio — Surface Characterization of RuO2-SnO2 Coated Titanium Electrodes	1	32
Ito, Takashi, see Aoyama, Takayuki	7	2280
Ito, Takashi, see Sugino, Rinji	8	2691
Itsumi, Manabu, see Akiya, Hideo	3	973
Itsumi, Manabu; Omura, Yasuhisa; Imai, Kazuo; Ueki, Takami; Akiya, Hideo; Tomita, Masato; Yamawaki, Masatuka — Copper Decoration Followed by TEM Observation Identifying Defects in the Buried Oxides of SOI Substrates	7	2367
Itsumi, Manabu; Akiya, Hideo; Nakayama, Satoshi; Yoshino, Hideo — Passivation of Sodium Ions in Metal Oxide Semiconductor Structures by Annealing with Ultraviolet Light	10	3359
Itsumi, Manabu; Shimaya, Masakazu; Akiya, Hideo; Shiono, Noboru — Generation of Si-SiO2 Interface States at Surface Potentials near 0.4 and 0.7 eV	11	3757
Ivanov, Dantcho V.; Yelon, Arthur — Chomical Sensitivity of the Thickness-Shear-Mode Quartz-Resonator Nanobelance	9	2835
Iwadate, Yasuhiko, see Matsuura, Haruki	1	334
Iwadate, Yasuhiko, see Matsuura, Haruki	12	3830
Iwakura, Chiaki; Abe, Toshiyuki; Inoue, Hiroshi — A New Successive System for Hydrogenation of Styrene Using a Two-Compartment Cell Separated by a Pd Sheet Electrode	4	L71
Iwakura, Chiaki, see Ikoma, Munehisa	6	1904
Iwakura, Chiaki, see Inoue, Hiroshi	8	2527
Iwasaki, Toshio; Tsumori, Yasuo; Nakai, Katsuhiko; Haga, Hiroyo; Kojima, Kiyoshi; Nakashizu, Tsuneo — Influence of Cooling Condition during Crystal Growth of CZ-Si on Oxide Breakdown Property	10	3383
Iwashita, N., see Tatsumi, K.	6	1923
Iwata, T. — Characterization of Ni-YSZ Anode Degradation for Substrate-Type Solid Oxide Fuel Cells	5	1821
Iyer, R.; Thakur, R. P. S.; Rhodes, H.; Liao, R.; Rosler, R.; Yieh, E. — Electrical and Physical Characterization of Tetraethylorthosilicate-O3 Borophosphosilicate Glass	10	3366
Izaki, Masanobu; Omi, Takashi — Electrolyte Optimization for Cathodic Growth of Zinc Oxide Films	3	L53
Izaki, Masanobu, see Fujiwara, Yutaka	8	2584
Izumi, K., see Nakashima, Sadao	1	244
Jacob, Kerstin, see Berger, Horst H.	1	L15
Jacobs, J. W. M., see van den Meerakker, J. E. A. M.	2	L40
Jacobson, D. C., see Berton, J. L.	4	1406
Jaffrezic, H., see Baccar, Z. M.	4	1422
Jaffrezic-Renault, N., see Baccar, Z. M.	4	1422
Jahnes, C. V., see Frankel, Gerald S.	6	1834
Jain, Sanjeev; Atanasova, Paolina; Kodas, Toivo T.; Hampden-Smith, Mark — In Situ Formation of Coated and Composite Palladium Particles via Spray Pyrolysis	11	3762
James, Patrick; Casillas, Norberto; Smyrl, William H. — Simultaneous Scanning Electrochemical and Photoelectrochemical Microscopy by Use of a Metallized Optical Fiber	12	3853
Jamnik, J.; Gaberscek, M.; Pejovnik, S. — Differential Measurement of Nonlinear Electrical Relaxation of Lithium Batteries	10	3148
Jamnik, J., see Fleig, J.	11	3638
Jang, Dong H.; Shin, Young J.; Oh, Seung M. — Dissolution of Spinel Oxides and Capacity Losses in 4 V Li/LixMn2O4 Cells	7	2204
Jang, Guang-Way; Chen, Chengchang; Gumbs, Ronald W.; Wei, Yen; Yeh, J.-M. — Large-Area Electrochromic Coatings. Composites of Polyaniline and Polyacrylate-Silica Hybrid Sol-Gel Materials	8	2591
Jansen, Andrew N.; Wojcik, Paul T.; Agarwal, Pankaj; Orazem, Mark E. — Thermally Stimulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs Schottky Diode	12	4066
Jansen, Andrew N.; Orazem, Mark E. — Optically Stimulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs Schottky Diode	12	4074
Janssen, A. H. H., see Vossen, Jack P. T.	1	58
Janssen, G. C. A. M., see Oosterlaken, T. G. M.	5	1688
Jansson, Ulf, see Lundberg, Nils	5	1682
Jansson, Ulf, see Ljungberg, Karin	5	1709
Jean, M.; Tranchant, A.; Messina, R. — Reactivity of Lithium Intercalated into Petroleum Coke with Carbonate Electrolytes	2	391
Jenkins, Thomas J., see DeSalvo, Gregory C.	11	3682
Jensen, Klavs F., see Hebb, Jeffrey P.	3	1142
Jensen, Klavs F., see Merchant, Tushar P.	5	2035
Jensen, Klavs F., see Simka, H.	8	2646
Jeon, Byung-Soo; Yoo, Jae Soo; Lee, Jong Duk — Electrophoretic Deposition of ZnO:Zn Phosphor for	12	3923

Author — Issue — Page

Field Emission Display Applications
Jeon, Joong S.; Raghavan, Srini; Carrejo, Juan P. 1 277
Effect of Temperature on the Interaction of Silicon with Nonionic Surfactants in Alkaline Solutions
Jeon, Joong S.; Raghavan, Srini; Parks, Harold G.; Lowell, John K.; Ali, Iqbal 9 2870
Electrochemical Investigation of Copper Contamination on Silicon Wafers from HF Solutions
Jeon, Joong S., *see* Kneer, Emil A. 12 4095
Jeong, K.-M., *see* Kwak, S. I. 9 2770
Jerkiewicz, Gregory; Zolfaghari, Alireza 4 1240
Comparison of Hydrogen Electrosdesorption from the Electrolyte with Hydrogen Adsorption from the Gas Phase
Jia, L., *see* Zhang, S. L. 4 1394
Jia, Q. X., *see* Zheng, J. P. 3 1068
Jiang, Z., *see* Abraham, K. M. 1 1
Jiang, Z.; Abraham, K. M. 5 1591
Preparation and Electrochemical Characterization of Micron-Sized Spinel LiMn2O4
Jiao, Jun; Nolan, P. E.; Seraphin, S.; Cutler, A. H.; Lynch, D. C. 3 932
Morphology of Carbon Nanoclusters Prepared by Catalytic Disproportionation of Carbon Monoxide
Jin, Tetsuro; Tsutsumi, Shuji; Deguchi, Yujiro; Machida, K.-I.; Adachi, Gin-ya 10 3333
Luminescence Characteristics of the Lanthanide Complex Incorporated into an ORMOSIL Matrix Using a Sol-Gel Method
Johansson, L.-G., *see* Svensson, Jan-Erik 1 51
John, P., *see* Rigden, J. S. 3 1033
Johnson, Bryan J.; Park, S.-M. 4 1269
Electrochemistry of Conducting Polymers. XIX. Oxidation of Aniline at Bare and Polyaniline-Modified Platinum Electrodes Studied by Electrochemical Impedance Spectroscopy
Johnson, Bryan J.; Park, S.-M. 4 1277
Electrochemistry of Conductive Polymers. XX. Early Stages of Aniline Polymerization Studied by Spectroelectrochemical and Rotating Ring Disk Electrode Techniques
Johnson, Dennis C., *see* Pamplin, Kim L. 7 2119
Johnson, Dennis C., *see* Ge, Jisheng 8 2543
Johnson, R. W., *see* Casady, Jeffrey B. 5 1750
Jones, M. Thomas, *see* Soucaze-Guillous, Benoit 2 550
Jorné, Jacob; Lee, Michael G. 3 865
Striated Morphology during Electrodepcsition
Josefowicz, J. Y., *see* Kowal, K. 8 2471
Jovancicevic, Vladimir, *see* Isaacs, Hugh S. 8 L178
Jow, T. R., *see* Zheng, J. P. 3 1068
Jubber, M. G., *see* Rigden, J. S. 3 1033
Juzeliunas, E.; Kalinauskas, P.; Miecinskas, P. 5 1525
Electrochemical Quartz Crystal Microgravimetry Study of Zinc Electrode Behavior in a Neutral Solution by Laser Illumination
Kachi, Tetsu, *see* Kozawa, Takahiro 1 L17
Kadish, Karl M., *see* Soucaze-Guillous, Benoit 2 550
Kahanda, G. L. M. K. S.; Gu, Jingyan; Tomkiewicz, Micha; Kruger, Albert A. 4 1214
In Situ Monitoring of Grouted Electrolytes
Kailath, Thomas, *see* Schaper, Charles 1 374
Kaji, Hayato, *see* Ito, Minoru 1 32
Kaji, K., *see* Ye, J. H. 12 4012
Kajiyama, Kenji, *see* Hara, Tohru 8 L166
Kakimoto, Koichi, *see* Yi, K.-W. 2 722
Kakizaki, Yasuo, *see* Hara, Tohru 8 L166
Kakuta, Toshiya, *see* Yamashita, Kimihiro 7 2150
Kalcher, K., *see* Svegl, F. 5 1532
Kalcoran, Nader, *see* Parkhutik, V. P. 12 3943
Kalinauskas, P., *see* Juzeliunas, E. 5 1525
Kalinowski, Jan; Stampor, W.; Di Marco, P. 1 315
Electromodulation of Luminescence in Organic Photoconductors
Kallah, R., *see* Vinokur, N. 10 L238
Kalluri, Srinath, *see* Chen, Antao 11 3648
Kalu, E. E.; White, Ralph E.; Hobbs, D. T. 10 3094
Use of a Hydrogen Anode for Nitrate Waste Destruction
Kamata, Masahiro, *see* Morimoto, Hideyuki 2 567
Kamata, Masahiro; Esaka, Takao; Kodama, Naoto; Fujine, Shigenori; Yoneda, Kenji; Kanda, Keiji 5 1566
Application of Neutron Radiography to Visualize the Motion of Lithium Ions in Lithium Ion Conducting Materials
Kammlott, G. W., *see* Law, Henry H. 8 2596
Kanagawa, Tetsuya, *see* Maruyama, Toshiro 5 1675
Kanamura, Kiyoshi; Shiraishi, Soshi; Takehara, Zen-ichiro 7 2187
Electrochemical Deposition of Very Smooth Lithium Using Nonaqueous Electrolytes Containing HF
Kanamura, Kiyoshi; Toriyama, Shigetaka; Shiraishi, Soshi; Takehara, Z.-i. 8 2548
Electrochemical Oxidation Processes on Ni Electrodes in Propylene Carbonate Containing Various Electrolyte Salts
Kanamura, Kiyoshi; Sakasbe, Hikari; Fujimoto, Hiroyuki; Takehara, Z.-i. 9 2713
Physical Property Change of FeOOH(AD)1/4 during Lithium Insertion and Extraction
Kanamura, Kiyoshi; Tanaka, A.; Gervasio, Don; Kennedy, V.; Adzic, R.; Yaeger, E. B.; Burton, D.; Guneratne, R. 9 2765
Perfluoro-ethylene-1,2-bis-phosphonic Acid Fuel Cell Electrolyte
Kanda, Keiji, *see* Kamata, Masahiro 5 1566
Kanda, M., *see* Kohno, Tatsuoki 9 L198
Kaneko, Seiji, *see* Sakiyama, Keizo 3 L87
Kang, Tak, *see* Choi, Young-Sik 2 480
Kaniava, A., *see* Rotondaro, A. L. P. 9 3014
Kanicki, J., *see* Warren, William L. 11 3685
Kanno, H., *see* Saeki, Isao 7 2226
Kanno, Ryoji; Shirane, Takayuki; Kawamoto, Yoji; Takeda, Yasuo; Takano, Mikio; Ohashi, Masayoshi; Yamaguchi, Yasuo 8 2435
Synthesis, Structure, and Electrochemical Properties of a New Lithium Iron Oxide, LiFeO2, with a Corrugated Layer Structure
Kanoh, Hirofumi; Hirotsu, Takahiro; Ooi, Kenta 3 905
Electrochromic Behavior of a Lambda-MnO2 Electrode Accompanying Li+ -Insertion in an Aqueous Phase
Kanoh, Hirofumi; Feng, Qi; Hirotsu, Takahiro; Ooi, Kenta 8 2610
AC Impedance Analysis for Li+ Insertion of a Pt/Lambda-MnO2 Electrode in an Aqueous Phase
Kao, Wen-Hong 9 2841
High-Performance Positive Paste for Lead-Acid Batteries
Kappelt, Michael; Bimberg, D. 10 3271
Wet Chemical Etching of High Quality V-Grooves with {111} A Sidewalls on (001) InP
Karino, Isamu, *see* Fujino, Naohiko 12 4125
Kasai, J., *see* Mitani, Katsuhiko 3 1151
Kasamatsu, Akifumi; Takakubo, Hayme; Shono, Katsufusa 2 712
Control of Surface Concentration of Boron or Phosphorus Employing Ion Shower Doping
Kashiwagi, Y.; Shimokawa, R.; Yamanaka, M. 12 4079
Highly Sensitive Etchants for Delineation of Defects in Single- and Polycrystalline Silicon Materials
Kashkarov, P. K., *see* Obraztsov, A. N. 3 1109
Kasuga, Toshihiro, *see* Abe, Yoshihiro 1 144
Kasuh, T., *see* Tokumitsu, Katsuhisa 7 2235
Katsoka, M., *see* Nakashima, Sadao 1 244
Katashiro, Masahiro; Matsumoto, Kazuya; Ohta, Ryo 11 3771
Analysis and Application of Hydrogen Supplying Process in Metal-Oxide-Semiconductor Structures
Katayama, Masataka, *see* Habuka, Hitoshi 2 677
Katayama, T., *see* Nakashima, Sadao 1 244
Katayama, Toshiharu, *see* Kobayashi, Kiyoteru 4 1459
Katritzky, Alan R., *see* Larmat, Fernando 8 L161
Katsidis, C. C., *see* Siapkas, D. I. 9 3019
Katz, Howard E., *see* Shilling, Marcia L. 2 691
Kaufman, Frank B., *see* Thomas, Richard R. 2 643
Kavan, Ladislav; Grätzel, M.; Rathousky, J.; Zukal, A 2 394
Nanocrystalline TiO2 (Anatase) Electrodes: Surface Morphology, Adsorption, and Electrochemical Properties
Kaviani, Kian, *see* Chen, Antao 11 3648
Kawada, Tatsuya, *see* Horita, Teruhisa 4 1161
Kawada, Tatsuya, *see* Nishiyama, Haruo 7 2332
Kawai, Tatsuya; Nishihara, Hiroshi; Aramaki, Kunitsugu 12 3866
Inhibition Effects of Amines and Thiols on Iron Corrosion in Anhydrous Methanol Solution Containing FeCl3
Kawamoto, Yoji, *see* Kanno, Ryoji 8 2435
Kawasaki, H., *see* Fiordalice, R. W. 8 2059
Kawasaki, Shinji, *see* Liu, Ning 9 L214
Kawasaki, Shinji, *see* Liu, Ning 7 2267
Kawazawa, Y., *see* Yamamoto, Kenichi 12 4119
Kazacos, M., *see* Skyllas-Kazacos, Maria 4 L86
Kazior, T. E., *see* Olson, R. J., Jr. 1 288
Keane, J., *see* Bhattacharya, Raghu Nath 3 854
Keddam, M., *see* Bernard, M. C. 8 2447
Keen, J. M., *see* Wu, Z. Y. 9 2972
Kek, Darja; Gaberscek, M.; Pejovnik, S. 5 1690
All-Solid-State Measurements of Electrical Properties of Passive Films on Lithium
Kelly, J. J., *see* Emé, Ben H. 1 305
Kelly, J. J., *see* Bressers, P. M. M. C. 5 1744
Kenjo, Tadao; Nakagawa, T. 4 L92
Ohmic Resistance of the Electrode-Electrolyte Interface in Au/YSZ Oxygen Electrodes
Kennedy, V., *see* Kanamura, Kiyoshi 9 2765
Kepley, Larry, *see* Doeff, Marca M. 8 2507
Ketkar, S. N., *see* Hsiung, T. H. 8 2429
Kettle, Sidney F. A., *see* Yamase, Toshihiro 5 1678
Khan, Golam Faruque; Wernet, Wolfgang 10 3336
Platinization of Shapable Electroconductive Polymer Film for an Improved Glucose Sensor
Khanh, Nguyen Quock, *see* Düsco, Csaba 2 683
Khong, Y. L.; Tan, G. S.; Tan, G. A. 11 L264
Surface and Interfacial Roughness of Polished and Oxidized Silicon Wafers Evaluated by an Infrared Differential Interference Contrast Technique
Kikkawa, T., *see* Kikuta, Kuniko 1 228
Kikkawa, T., *see* Kikuta, K. 3 1088
Kikuta, K.; Kikkawa, T. 3 1088
Electromigration Characteristics for Al-Ge-Cu
Kikuta, Kuniko; Kikkawa, T. 1 228
Al-Ge Reflow Sputtering for Submicron Contact Hole Filling
Killian, J. G.; Coffey, B. M.; Gao, F.; Poehler, T. O.; Searson, P. C. 3 936
Polypyrrole Composite Electrodes in an All-Polymer Battery System
Kilmer, J. A., *see* Sirman, J. D. 10 L229
Kim, B.-Y., *see* Wang, C.-L. 7 2387
Kim, Chan-Soo; Yoo, Han-Ill 9 2863
A New Candidate for the Solid Oxide Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Transport Properties and Defect Structure
Kim, D.-H.; Kim, Jung Ju; Park, Jin W.; Kim, Jae J. 9 L188
Stability of TiN Films Prepared by Chemical Vapor Deposition Using Tetrakis-dimethylamino Titanium
Kim, Dae Woo, *see* Lee, Seung Joo 11 L268
Kim, Dong S., *see* Lee, Jung 4 1443
Kim, Dong S., *see* Lee, Jung H. 4 1451
Kim, Dong-Hwan; Park, Young-Bae; Lee, Il-Jeong; Rhee, Shi-Woo 8 2640
Remote Plasma Enhanced Chemical Vapor Deposition of Silicon Films at Low Temperatures from Si2H6-H2-SiF4
Kim, Donghwan, *see* Qi, Bin 2 517
Kim, Enoch, *see* Xia, Younan 3 1070
Kim, H., *see* Aricó, A. S. 12 3950
Kim, Hansuk, *see* Desilva, Melvin 4 L78
Kim, J.-C., *see* Kwon, S.-K. 2 639
Kim, Jae J., *see* Kim, D.-H. 9 L188
Kim, Jae Jeong, *see* Byun, Jeong Soo 3 L56
Kim, Jin-Won; Ryu, Myung-Kwan; Kim, Ki-Bum; Kim, Sang-Joo 1 363
Low Pressure Chemical Vapor Deposition of Si1-xGex Films Using Si2H6 and GeH4 Source Gases
Kim, Jinseong, *see* Bockris, John O'M. 12 3801
Kim, Jung Ju, *see* Kim, D.-H. 9 L188
Kim, Jung-Hyung; Seo, Sang-Hun; Yun, Seok-Min; Chang, Hong-Young; Lee, Kwang-Man; Choi, C.-K. 9 2990
A Study on Low Dielectric Material Deposition Using a Helicon Plasma Source
Kim, Ksunjoo; Lee, Young Hee; Suh, Moon-Suhk; Youn, Chang-Joo; Lee, Kee-Bang; Lee, Hyung Jae 10 3372
Thermal Oxynitridation of Silicon in N2O Ambients
Kim, Ki-Bum, *see* Kim, Jin-Won 1 363
Kim, Kwang-Wook; Lee, Eil-Hee; Shin, Young-Joon; Yoo, Jae-Hyung; Park, Hyun-Soo 9 2717
A Study on Development of an Electrolysis System with Vertically Circulating Mercury Capillary Bundle Electrode and Its Characteristics
Kim, S. K., *see* Kwak, S. I. 9 2770
Kim, Sang-Joo, *see* Kim, Jin-Won 1 363
Kim, Y.-S.; Sohn, H.-J. 2 505
Mathematical Modeling of Electroless Nickel Deposition at Steady State Using Rotating Disk Electrode
Kino, Yukihiro, *see* Hara, Tohru 11 L264
Kinoshita, Kimio, *see* Song, X. Y. 6 L120
Kirleis, Juergen T., *see* Thomas, Richard R. 2 643
Kiros, Yohannes 7 2152
Electrocatalytic Properties of Co, Pt, and Pt-Co on Carbon for the Reduction of Oxygen in Alkaline Fuel Cells
Kisza, Adolf; Thonstad, Jomar; Eidet, Trygve 6 1540
An Impedance Study of the Kinetics and Mechanism of the Anodic Reaction on Graphite Anodes in Saturated Cryolite-Alumina Melts
Kitajima, Hiroshi, *see* Shiramizu, Yoshimi 5 1632
Kitamori, K., *see* Yamada, Naoki 4 1375
Kitamura, E., *see* Nakamura, M. 9 2876
Kitamura, Fusao, *see* Yamada, Keizo 12 4006
Kitamura, T., *see* Hara, Tohru 11 L264
Kitamura, Taira, *see* Hara, Tohru 8 L166
Kitani, Akira, *see* Tang, Heqing 10 3079
Kithcart, Victoria, *see* Robles, Stuardo 4 1414
Kiyota, Yukihiro, *see* Oda, Katsuya 7 2361
Kjelstrup, Signe, *see* Bedeaux, Dick 3 767
Kjelstrup, Signe; Bedeaux, Dick 3 779
The Overpotential as a Surface Singularity Described by Nonequilibrium Thermodynamics
Kjelstrup, Signe, *see* Hansen, Ellen Marie 11 3440
Klein, Lisa C., *see* Amatucci, Glenn G. 3 1114
Kneer, Emil A.; Raghunath, Chilkunda;

Author	Issue	Page
Raghavan, Srini; Jeon, Joong S. Electrochemistry of Chemical Vapor Deposited Tungsten Films with Relevance to Chemical Mechanical Polishing	12	4095
Knutson, Karson L., see Merchant, Tushar P.	6	2035
Kobayakawa, Koichi, see Sato, Yuichi	10	L225
Kobayashi, Junji, see Fujino, Nachiko	12	4125
Kobayashi, K., see Mazumder, Motharul Kabir	1	368
Kobayashi, Kiyoteru; Inaba, Yutaka; Ogata, Tamotsu; Katayama, Toshiharu; Watanabe, Hajime; Matsui, Yasuji; Hirayama, Makoto Ultrathin Silicon Nitride Films Fabricated by Single-Wafer Processing Using SiH2Cl2-NH3-H2 System and In Situ H2 Cleaning	4	1459
Kobayashi, Kiyoteru; Teramoto, Akinibu; Matsui, Yasuji; Hirayama, Makoto; Yasuoka, Akihiko; Nakamura, Tadashi Electron Traps and Excess Current Induced by Hot-Hole Injection into Thin SiO2 Films	10	3377
Kobayashi, Takeshi, see Yamase, Toshihiro	5	1678
Kobayashi, Takuya, see Hara, Tohru	11	L264
Koch, Brian J., see Verbrugge, Mark W.	1	24
Koch, Brian J., see Verbrugge, Mark W.	2	600
Koch, V. R., see Croce, F.	1	154
Koch, V. R., see Ein-Eli, Yair	9	L195
Koch, V. R.; Dominey, L. A.; Nanjundiah, C.; Ondrechen, M. J. The Intrinsic Anodic Stability of Several Anions Comprising Solvent-Free Ionic Liquids	3	798
Koch, Victor, see Ein-Eli, Yair	12	L273
Kodama, Naoto, see Kamata, Masahiro	6	1866
Kodas, Toivo T., see Jain, Sanjeev	11	3762
Koena, B. E., see Leroux, F.	9	L181
Kohl, Paul A., see Dudel, Frank P.	8	L164
Kohl, Paul A., see Gray, Gary E.	7	2262
Kohl, Paul A., see Gray, Gary E.	12	3820
Kohno, Tatsuoki; Tsuruta, S.; Kanda, M. The Hydrogen Storage Properties of New Mg2Ni Alloy	9	L198
Koide, Norikatsu, see Kozawa, Takahiro	1	L17
Koide, Yasuo, see Wakimoto, Hiroki	5	1705
Koike, Masayoshi, see Kozawa, Takahiro	1	L17
Koizumi, Tomohiro, see Suda, Yoshiyuki	8	2502
Kojima, Kiyoshi, see Iwasaki, Toshio	10	3383
Koksbang, R., see West, Keld	3	820
Koksbang, R., see Shi, Hang	11	3466
Koksbang, René, see Olsen, Ib I.	2	570
Kolbesen, B. O., see Dellith, M.	1	210
Kolman, D. G.; Scully, John R. On the Repassivation Behavior of High-Purity Titanium and Selected A, B and B + A Titanium Alloys in Aqueous Chloride Solutions	6	1847
Komichi, Dai, see Liu, Ning	9	L214
Komiyama, H., see Takahashi, Takahiro	4	1355
Komiyama, Hiroshi, see Takami, Seiichi	2	L38
Kondo, Kazuo; Murakami, Tomoya; Shinohara, Kunio Morphology Evolution of Zinc-Iron Binary Alloys Electrodeposited with Copper Additive	4	L75
Kondo, Kazuo; Fukui, Keisuke; Uno, Kasumasa; Shinohara, Kunio Shape Evolution of Electrodeposited Copper Bumps	6	1880
Kondo, M.; Shiba, T.; Tamaki, Y.; Nakamura, T. Double-Layer mc-Si/a-SiCx Emitter in a Silicon Heterojunction Bipolar Transistor with a Cutoff Frequency of 47 GHz	8	1949
Kong, Fanping, see Wang, Kuilong	2	422
Konstadinidas, K., see Fiorino, M. Elaine	8	2422
Kopalidis, Peter M.; Vertommen, Johan; Badenes, Goncal Characterization and Residue Elimination of Hot Aluminum Etching in a Transformer Coupled Plasma Etcher	5	1763
Korablev, K., see Zagozdzon-Wosik, W.	9	2981
Kordesch, Karl, see Binder, Leo	1	13
Koshida, Nobuyoshi, see Suda, Yoshiyuki	8	2502
Kossek, Sebastian, see Padeste, Celestino	12	3890
Kotaki, Toshiro; Horii, Noritaka; Isono, Hirohito; Matsumoto, Osamu Deposition of Diamond from a Plasma Jet with Dichlorobenzene as Carbon Source	6	2003
Kovácová, Zuzana, see Marinkovic, Nabojsa S.	8	L171
Kovacsics, Cs., see Horányi, T. S.	1	216
Kowal, K.; DeLuccia, J.; Josefowicz, J. Y.; Laird, C.; Farrington, Gregory C. In Situ Atomic Force Microscopy Observations of the Corrosion Behavior of Aluminum-Copper Alloys	8	2471
Kowal, K., see Liu, W.	11	3590
Koyama, H., see Mazumder, Motharul Kabir	1	368
Kozawa, Takahiro; Kachi, Tetsu; Ohwaki, Takeshi; Taga, Yasunori; Koide, Norikatsu; Koike, Masayoshi Dislocation Etch Pits in GaN Epitaxial Layers Grown on Sapphire Substrates	1	L17
Krafft, J. M., see Baccar, Z. M.	4	1422
Krasteva, N., see Armyanov, S.	11	3692
Kremers, M., see Notten, Peter H. L.	10	3348
Kreuzer, V., see Schübler, Martin	4	L73
Krueger, C. L., see Roy, J. J.	8	2487
Kruger, Albert A., see Kahanda, G. L. M. K. S.	4	1214
Krupa, J. C., see Mayolet, A.	1	330
Kubo, Akira; Homma, Tetsuya; Murao, Yukinobu An SiO2 Film Deposition Technology Using Tetraethylorthosilicate and Ozone for Intermetal Dielectrics	5	1769
Kucernak, Anthony R. J., see Burstein, G. T.	7	L139
Kuchta, Elizabeth, see Ball, David A.	1	296
Kudo, Jun, see Hara, Tohru	11	L264
Kudoh, H., see Takeishi, Shunsaku	1	381
Kühne, Heinz; Fischer, A.; Öztürk, Mehmet C.; Sangaraniа, Mahesh K. On The Mechanism of Boron Incorporation during Silicon Epitaxy by Means of Chemical Vapor Deposition	2	634
Kulesza, Pawel J.; Malik, M. A.; Miecznikowski, K.; Wolkiewicz, A.; Zamponi, S.; Rarnettoni, M.; Marassi, R. Countercation-Sensitive Electrochromism of Cobalt Hexacyanoferrate Films	1	L10
Kulp, D. T.; Garofalini, Stephen H. Molecular Dynamics Studies of Lithium Injection in Model Cathode/Electrolyte Systems	7	2211
Kumagai, Naoaki; Fujiwara, Takayuki; Tanno, Kazuo; Horiba, Tatsuo Physical and Electrochemical Characterization of Quaternary Li-Mn-V-O Spinel as Positive Materials for Rechargeable Lithium Batteries	3	1007
Kumagai, Naoaki, see Groult, H.	7	2093
Kunisa, Yasuhiro, see Eguchi, Koichi	11	3899
Kunishima, Yoshiko Niki; Miyayama, Masaru; Yanagida, Hiroaki Effects of an External Electric Field from a Substrate on Conductance of SnO2 Thin Films	4	1334
Kuo, Yue Nonphotosensitive, Vertically Redundant Two-Channel a-Si:H Thin Film Transistor	4	1469
Kuo, Yue Horizontally Redundant, Split-Gate a-Si:H Thin Film Transistors	8	2680
Kuramoto, Kazuo, see Fujino, Naohiko	12	4125
Kurosawa, Hideyuki, see Miura, Norio	2	L33
Kusumoto, C., see Ogura, Kotaro	11	3606
Kusunoki, Tsuneo, see Ohno, Katsutoshi	3	1063
Kutner, Wlodzimierz, see Soucaze-Guillous, Benoit	2	550
Kuwabata, Susumu, see Nishizawa, Matsuhiko	11	3462
Kvitek, R. J., see Tsuchiaki, Masakatsu	7	2378
Kwak, S. I.; Jeong, K.-M.; Kim, S. K.; Sohn, Hun-Joon Current Distribution and Current Efficiency in Pulsed Current Plating of Nickel	9	2770
Kwon, S.-K.; Lim, C.; Cho, B.-J.; Kim, J.-C. Nano-Trenched Local Oxidation of Silicon Isolation Using Island Polysilicon Grains	2	639
Kwong, Dim-Lee, see Wang, C.-L.	7	2357
Kylner, Angela; Lindgren, J.; Stolt, L. Impurities in Chemical Bath Deposited CdS Films for Cu(In,Ga)Se2 Solar Cells and Their Stability	8	2662
Lacaze, Pierre-Camille, see Mostefai, Malik	7	2116
Lackey, Nicole, see Liang, Ming	10	3117
Lafage, B., see Chamelot, P.	5	1570
Laird, C., see Kowal, K.	8	2471
Lambers, E. S., see Pearton, S. J.	2	752
Lambers, E. S., see Lee, J. W.	3	1093
Lambers, E. S., see Lee, J. W.	6	2010
Lambers, E. S., see Hong, J.	11	3656
Lamendola, R., see Fracassi, Francesco	2	701
Lamela, Angelo, see Bladon, John J.	4	1206
Landau, U., see Weng, Dacong	4	1260
Landau, Uziel, see Martin, Heidi B.	6	L133
Landheer, D.; Tao, Y.; Hulse, J. E.; Quance, T.; Xu, D.-X Formation of High-Quality Nitrided Silicon Dioxide Films Using Electron-Cyclotron Resonance Chemical Vapor Deposition with Nitrous Oxide and Silane	5	1681
Landolt, D., see Podlaha, Elizabeth J.	3	885
Landolt, D., see Podlaha, Elizabeth J.	3	893
Landolt, D., see Madore, C.	12	3927
Landolt, D., see Madore, C.	12	3936
Lane, A. P., see George, Mark	10	3257
Lane, B., see Olson, R. J., Jr.	1	288
Lane, J. A., see Adler, S. B.	11	3554
Langlais, F., see Ganz, M.	5	1654
Lantelme, Frederic; Salmi, A. Electrochemical Determination of Solid-State Interdiffusion in Nickel-Platinum Alloys	11	3662
Laperrière, Guylaine; Lavoie, Marc-André; Bélanger, Daniel Electrochromic Behavior of Molybdenum Trioxide Thin Films, Prepared by Thermal Oxidation of Electrodeposited Molybdenum Trisulfide, in Mixtures of Nonaqueous and Aqueous Electrolytes	10	3109
Lapicque, Francois, see Gerth, Lutz	12	3910
Larmat, Fernando; Solodkucho, Jadwiga; Katritzky, Alan R.; Reynolds, John R. Electropolymerization of 1,4-bis(Pyrrol-2-yl)benzene in the Presence of the Easily Oxidized Electrolyte Sodium Tetraphanylborate	8	L181
Lasia, Andrzej, see Chen, Linlin	11	3676
Latanision, R. M., see Mitton, D. B.	3	L59
Latanision, R. M., see Mitton, D. B.	10	3307
Laverty, S. J., see Feng, H.	6	2048
Lavoie, Marc-André, see Laperrière, Guylaine	10	3109
Law, Henry H.; Vyas, B.; Zahurak, S. M.; Kammlott, G. W. A Novel Plating Process for Microencapsulating Metal Hydrides	8	2596
Le, D. B.; Passerini, S.; Guo, J.; Ressler, J.; Owens, B. B.; Smyrl, W. H. High Surface Area V2O5 Aerogel Intercalation Electrodes	7	2099
Lebans, J. A.; McColgin, W. C.; Russell, J. B.; Mori, Erik Jun; Shive, L. W. Unintentional Doping of Wafers Due to Organophosphates in the Clean Room Ambient	9	2906
Lee, C. C., see Mansfeld, Florian	12	L286
Lee, C. S.; Baek, J. T.; Yoo, H. J.; Woo, S. I. Modeling and Characterization of Gas-Phase Etching of Thermal Oxide and TEOS Oxide Using Anhydrous HF and CH3OH	3	1099
Lee, Chiapyng, see Chen, N. K.	1	352
Lee, Choong-Gon; Yamada, Kohta; Nishina, Tatsuo; Uchida, Isamu A Kinetic Study of Spike Peaks Observed under Pressurized Oxidant Gas Atmospheres in Molten Alkali Carbonates	7	2315
Lee, Chung Lan, see Yang, Chien Kuo	10	3302
Lee, Ell-Hee, see Kim, Kwang-Wook	9	2717
Lee, H. S., see McBreen, J.	10	3198
Lee, H. S.; Yang, X. Q.; McBreen, J.; Choi, L. S.; Okamoto, Y. The Synthesis of a New Family of Anion Receptors and the Studies of Their Effect on Ion Pair Dissociation and Conductivity of Lithium Salts in Nonaqueous Solutions	12	3825
Lee, Hong H., see Choi, E. S.	2	624
Lee, Hyung Jae, see Kim, Keunjoo	10	3372
Lee, I-Ming Ryan; Takoudis, Christos G. Process-Property Relationships in Si1-xGex Chemical Vapor Deposition. Thermodynamic and Kinetic Studies	8	1719
Lee, Il-Jeong, see Kim, Dong-Hwan	8	2840
Lee, J. W.; Santana, C. J.; Abernathy, C. R.; Pearton, S. J.; Ren, F. Wet Chemical Etch Solutions for AlxGa1-xP	1	L1
Lee, J. W.; Pearton, S. J.; Abernathy, C. R.; Zavada, J. M.; Chai, B. L. H. Wet and Dry Etching of LiGaO2 and LiAlO2	8	L169
Lee, J. W., see Ren, F.	9	L217
Lee, J. W., see Stradmann, R. R.	9	L219
Lee, J. W., see Pearton, S. J.	2	752
Lee, J. W.; Pearton, S. J.; Santana, C. J.; Mileham, J. R.; Lambers, E. S.; Abernathy, C. R.; Ren, F.; Hobson, W. S. High Ion Density Plasma Etching of InGaP, AlInP, and AlGaP in CH4/H2/Ar	3	1093
Lee, J. W.; Hong, J.; Lambers, E. S.; Abernathy, C. R.; Pearton, S. J.; Hobson, W. S.; Ren, F. C12-Based Dry Etching of GaAs, AlGaAs, and GaP	6	2010
Lee, J. W., see Hong, J.	11	3656
Lee, J. W., see Vartuli, C. B.	11	3681
Lee, Jim Y., see Pan, B. H.	9	2784
Lee, John T. C., see Maynard, Helen L.	6	2029
Lee, Jong Duk, see Cho, Sung Hee	10	L231
Lee, Jong Duk, see Jeon, Byung-Soo	12	3923
Lee, Jong Kl, see Lee, Seung Joo	11	L269
Lee, Jung H.; Kim, Dong S.; Lee, Young H.; Farouk, Bakhtier Effects of RF Power on Plasma Phase Reactions and Film Structure in Deposition of a-C:H by Styrene/Argon Discharge	4	1451
Lee, Jung; Kim, Dong S.; Lee, Young H. Room Temperature Deposition of Silicon Dioxide Films by Ion-Assisted Plasma Enhanced Chemical Deposition	4	1443
Lee, K. L., see Hu, C.-K.	3	1001
Lee, K. Y., see Hu, C.-K.	3	1001
Lee, Kee-Bang, see Kim, Keunjoo	10	3372
Lee, Kwang-Man, see Kim, Jung-Hyung	9	2990
Lee, Kyung Ho, see Franklin, Thomas C.	11	3438
Lee, Michael G., see Jomé, Jacob	3	865
Lee, Peter; Mizuno, S.; Verma, A.; Tran, H.; Nguyen, B. Dielectric Constant and Stability of Fluorine-Doped Plasma Enhanced Chemical Vapor Deposited SiO2 Thin Films	6	2015
Lee, Seung Joo; Lee, Jong Kl; Kim, Dae Woo; Baik, Hong Koo; Lee, Sung Man Fabrication of Thin Film LiCo0.5Ni0.5O2 Cathode for Li Rechargeable Microbattery	11	L269
Lee, Sung Man, see Lee, Seung Joo	11	L269
Lee, William; Shibasaki, Akio; Saito, Kyoichi; Sugita, Kazuyuki; Okuyama, Kazuo;		

Author	Issue	Page
Sugo, Takanobu Proton Transport Through Polyethylene-Tetrafluoroethylene-Copolymer-Based Membrane Containing Sulfonic Acid Group Prepared by RIGP	9	2795
Lee, Y.-S.; Hu, C.-C.; Wen, T.-C. Oxygen Evolution on Co-Cu-Zn Ternary Spinel Oxide-Coated Electrodes in Alkaline Solution. Integration of Statistical, Electrochemical, and Textural Approaches	4	1218
Lee, Young H., *see* Lee, Jung	4	1443
Lee, Young H., *see* Lee, Jung H.	4	1451
Lee, Young Hee, *see* Kim, Keunjoo	10	3372
Lefebvre, M., *see* Ganz, M.	5	1654
Lefebvre-Joud, F., *see* Salot, Raphaël	12	3902
Le Guillanton, Georges; Do, Quang Tho; Elothmani, Driss Determination of Mixtures of Polysulfides by Cyclic Voltammetry	10	L223
Le Guillanton, Georges, *see* Boryczka, Stanislaw	12	4027
Lehmani, Albert; Turq, Pierre; Simonin, Jean-Pierre Oxidation Kinetics of Water and Organic Compounds by Silver (II) Using a Potentiometric Method	6	1866
Lehmann, Hans W., *see* Padeste, Celestino	12	3890
Lehmann, V., *see* Ottow, S.	1	385
Lehmann, V. On the Origin of Electrochemical Oscillations at Silicon Electrodes	4	1313
Lehto, Sari, *see* Dúsco, Csaba	2	683
Lei, Tan Fu, *see* Yang, Chien Kuo	10	3302
Leith, Steven D.; Schwartz, Daniel T. Flow-Induced Composition Modulated NiFe Thin Films with Nanometer-Scale Wavelengths	3	873
Lengyel, B., *see* Mészáros, Lajos	11	3597
Lerner, Michael M., *see* Sloop, Steven E.	4	1292
Lerner, Michael M., *see* Holcomb, Nelson R.	4	1297
Leroux, F.; Koene, B. E.; Nazar, L. F. Electrochemical Lithium Intercalation into a Polyaniline/V2O5 Nanocomposite	9	L181
Lausink, G. J., *see* Oosterlaken, T. G. M.	5	1668
Levine, T. E., *see* Russell, Stephen W.	7	2349
Ley, Kevin L., *see* Fan, Qinbai	2	L21
Leygraf, Christofer, *see* Forslund, Mikael	3	839
Li, G.-X.; Fang, H.-Q.; Liao, X.-M.; Shi, H.-R.; Chen, H.-Y. Promoting Effect of Sodium Dodecyl Sulfate on the Redox Reaction of Hemoglobin	2	L24
Li, Genxi; Zhu, Junjie; Fang, H.; Chen, Hongyuan; Zhu, Dexu Voltammetric Response of Nicotinamide Coenzyme I at a Silver Electrode	7	L141
Li, Guangming, *see* Abe, Yoshihiro	1	144
Li, J. J., *see* Zhang, S. L.	4	1394
Li, Li; Bender, H.; Zou, G.; Mertens, Paul W.; Meuris, M. A.; Heyns, M. M. Improvement of High Temperature Water Rinsing and Drying for HF-Last Wafer Cleaning	1	233
Li, X.; Milnes, A. G. Ohmic Contacts Formed on n-GaSb by Electrochemical Deposition	3	1014
Li, Yang; Cheng, Yang-Tse Studies of Metal Hydride Electrodes Using an Electrochemical Quartz Crystal Microbalance	1	120
Liang, Ming; Lackey, Nicole; Carter, Scott; Norton, Michael L. Electrodeposited Silver Arrays Fabricated Utilizing Self-Assembled Alkanethiolate Monolayer Photoresist	10	3117
Liang, Zhiyong, *see* Chen, Antao	11	3648
Liao, R., *see* Iyer, R.	10	3366
Liao, X.-M., *see* Li, G.-X.	2	L24
Lii, T., *see* Tsang, Y. L.	4	1464
Lim, C., *see* Kwon, S.-K.	2	639
Lin, C. I., *see* Schübler, Martin	4	L73
Lin, Chenglu, *see* Xu, W.	3	1133
Lin, Chenglu, *see* He, Zhiping	8	2636
Lin, Mou-Shiung, *see* Yeh, Wen-Kuan	6	2053
Lin, Shyue-Shyh, *see* Yeh, Ching-Fa	8	2658
Lincot, Daniel, *see* Vedel, Jacques	7	2173
Lindgren, J., *see* Kylner, Angela	8	2662
Lindquist, Stan-Eric, *see* Rensmo, Hakan	10	3173
Lindström, Henrik, *see* Rensmo, Hakan	10	3173
Ling, Mildred, *see* Collins, Brian T.	7	2328
Linke, Peter, *see* Biermann, Erich	4	1434
Linn, J. H., *see* DeCrosta, David A.	3	1079
Liou, Yea-Wenn; Wang, Chong Mou Energetic Characterizations of Particulate RbPb2Nb3O10 Electrodes	5	1492
Liu, C. C., *see* Dalmia, A.	2	556
Liu, C. C., *see* Dalmia, A.	6	1827
Liu, C.-W.; Dai, B.-T.; Tseng, W.-T.; Yeh, C.-F. Modeling of the Wear Mechanism during Chemical-Mechanical Polishing	2	716
Liu, Changwei; Dong, Shaojun; Cheng, Guangjin; Sun, D. Probe Beam Deflection Combined with Cyclic Voltammetry Studies of C60-Modified Electrode Film	12	3874
Liu, Chong-yang; Hasty, Turner; Bard, Allen J. Electro-optical Charge Trapping in Zinc Porphyrin Films on Indium Tin Oxide and /SiO2/Si	6	1914
Liu, Hulmin; Dandy, David S. Nucleation Kinetics of Diamond on Carbide-Forming Substrates during Chemical Vapor Deposition. I. Transient Nucleation Stage	3	1104
Liu, Kuo-Chuan; Anderson, Marc A. Porous Nickel Oxide/Nickel Films for Electrochemical Capacitors	1	124
Liu, Meilin; Hu, Hongxing Effect of Interfacial Resistance on Determination of Transport Properties of Mixed-Conducting Electrolytes	6	L109
Liu, Meilin, *see* Hu, Hongxing	3	859
Liu, Meilin, *see* Agarwal, Vishal	10	3239
Liu, Min, *see* Chyan, Oliver M. R.	10	L235
Liu, Ning; Touhara, Hidekazu; Morio, Ysunari; Komichi, Dai; Okino, Fujio; Kawasaki, Shinji Electrochemical Behavior of Fluorinated Fullerenes C60Fx and C70Fx	9	L214
Liu, Ning; Touhara, Hidekazu; Okino, Fujio; Kawasaki, Shinji; Nakacho, Yoshifumi Solid-State Lithium Cells Based on Fluorinated Fullerene Cathodes	7	2267
Liu, S. T., *see* Afanas'ev, V. V.	1	347
Liu, T. Y., *see* Geroúki, A.	11	L262
Liu, T.-Y., *see* Goldner, Ronald B.	6	L129
Liu, W.; Farrington, Gregory C.; Chaput, F.; Dunn, B. Synthesis and Electrochemical Studies of Spinel Phase LiMn2O4 Cathode Materials Prepared by the Pechini Process	3	879
Liu, W.; Kowal, K.; Farrington, Gregory C. Electrochemical Characteristics of Spinel Phase LiMn2O4-Based Cathode Materials Prepared by the Pechini Process. Influence of Firing Temperature and Dopants	11	3590
Liu, Xingjiang; Osaka, Tetsuya All-Solid-State Electric Double-Layer Capacitor with Isotropic High-Density Graphite Electrode and Polyethylene Oxide/LiClO4 Polymer Electrolyte	12	3982
Liu, Z. F., *see* Zhang, S. L.	4	1394
Ljungberg, Karin; Jansson, Ulf; Bengtsson, Stefan; Söderbärg, Anders Modification of Silicon Surfaces with H2SO4:H2O2:HF and HNO3:HF for Wafer Bonding Applications	5	1709
Lo, Tai-Chin; Chan, Miu-ying Selective Electroplating Between Metal and Semiconductor Electrodes	11	3617
Lo, Yi Ling; Hwang, Bing Joe Characterization of the Electroless Ni-Mo-P/SnO2/Ti Electrodes with Heat-Treatment for Oxygen Evolution in Alkaline Solution	7	2158
Lobnig, Renate E.; Siconolfi, D. J.; Maisano, J.; Grundmeier, G.; Streckel, H.; Frankenthal, R. P.; Stratmann, M.; Sinclair, J. D. Atmospheric Corrosion of Aluminum in the Presence of Ammonium Sulfate Particles	4	1175
Lobnig, Renate E.; Siconolfi, D. J.; Psota-Kelty, L.; Grundmeier, G.; Frankenthal, R. P.; Stratmann, M.; Sinclair, J. D. Atmospheric Corrosion of Zinc in the Presence of Ammonium Sulfate Particles	5	1539
Löchel, Bernd; Maciossek, A.; Quenzer, H. J.; Wagner, B. Ultraviolet Depth Lithography and Galvanoforming for Micromachining	1	237
Löchel, Bernd; Maciossek, A. Electrodeposited Magnetic Alloys for Surface Micromachining	10	3343
Loncki, Scott B., *see* Shen, James J.	6	2068
Look, David C., *see* DeSalvo, Gregory C.	11	3652
Lopata, J., *see* Ren, F.	10	3394
Lopes, M. C. V.; dos Santos F., S. G.; Hasenack, Claus Martin; Baranauskas, V. Si-SiO2 Electronic Interface Roughness as a Consequence of Si-SiO2 Topographic Interface Roughness	3	1021
López-Villanueva, J. A., *see* Palma, Alberto	8	2687
Lothian, J. R., *see* Ren, F.	9	L217
Lothian, J. R., *see* Ren, F.	10	3394
Loumagne, F., *see* Ganz, M.	5	1654
Lourenco, A., *see* Goranstein, Annette	9	2822
Lowell, John K., *see* Jeon, Joong S.	9	2870
Lu, Da-ling; Tanaka, Ken-ichi Single-Crystal Cu2O Formation on Amorphous Carbon Electrode and Effect of Anions on the Crystal Habit of Cu2O Particles	7	2105
Lu, Geyu, *see* Miura, Norio	2	L33
Lu, Geyu; Miura, Norio; Yamazoe, Noboru Mixed Potential Hydrogen Sensor Combining Oxide Ion Conductor with Oxide Electrode	7	L154
Lu, Geyu, *see* Miura, Norio	10	L241
Lu, Hsueh Yi, *see* Zhao, Qiang	9	2896
Lu, Jiong-Ping; Hsu, W. Y.; Hong, Q. Z; Dixit, G. A.; Luttmer, J. D.; Havemann, R. H.; Magel, L. K. A Novel Process for Fabricating Conformal and Stable TiN-Based Barrier Films	12	L279
Lu, Jye-Chi, *see* Davis, Joseph C.	10	3404
Luckowski, E. D., *see* Casady, Jeffrey B.	5	1750
Lüdge, Anke, *see* Schulze, H.-J	12	4105
Ludvig, J., *see* Fleig, J.	11	3638
Lundberg, Nils; Östling, Mikael; Tägtström, Per; Jansson, Ulf Chemical Vapor Deposition of Tungsten Schottky Diodes to 6H-SiC	5	1662
Lur, Water, *see* Yeh, Ching-Fa	8	2658
Luttmer, J. D., *see* Lu, Jiong-Ping	12	L279
Lynch, D. C., *see* Jiao, Jun	3	932
Lytle, Farrel W., *see* Bladon, John J.	4	1206
Ma, B.; Balachandran, U.; Park, J.-H.; Segre, C. U. Electrical Transport Properties and Defect Structure of SrFeCo0.5Ox	5	1736
Ma, D. I., *see* Waytena, G. L.	7	2392
Ma, L., *see* Wen, S. J.	6	L136
Mabuchi, Akihiro, *see* Tokumitsu, Katsuhisa	7	2235
Machida, K.-I., *see* Jin, Tetsuro	10	3333
Machida, K., *see* Hirata, Akihiko	11	3747
Maclossek, A., *see* Löchel, Bernd	1	237
Maclossek, A., *see* Löchel, Bernd	10	3343
Mack, Gregory V., *see* Farmer, Joseph C.	1	189
MacKenzie, J. D., *see* Ren, F.	9	L217
MacKenzie, J. D., *see* Vartuli, C. B.	10	L248
MacKenzie, J. D., *see* Vartuli, C. B.	11	3681
Madar, R., *see* Pons, M.	11	3727
Madore, C.; Matlosz, Michael; Landolt, D. Blocking Inhibitors in Cathodic Leveling. I. Theoretical Analysis	12	3927
Madore, C.; Landolt, D. Blocking Inhibitors in Cathodic Leveling. II. Experimental Investigation	12	3936
Maeda, Masahiko, *see* Ikeda, Koichi	5	1715
Maex, K., *see* Baklanov, Mikhail R.	10	3245
Magel, L. K., *see* Lu, Jiong-Ping	12	L279
Maguire, P., *see* Feng, H.	6	2048
Maher, Dennis M., *see* Violette, Katherine E.	2	649
Maher, Dennis M., *see* Violette, Katherine E.	10	3290
Maier, J., *see* Fleig, J.	11	3638
Maisano, J., *see* Lobnig, Renate E.	4	1175
Makkus, R. C., *see* Vossen, Jack P. T.	1	66
Malhotra, Sanjiv; Datta, Ravindra Feasibility Studies of a Fuel Cell for Cogeneration of Homogeneously Catalyzed Acetaldehyde and Electricity from Ethanol	10	3058
Malik, M. A., *see* Kulesza, Pawel J.	1	L10
Manini, H., *see* Smith, Alan R.	1	339
Mantangit, Ebba, *see* Franklin, Thomas C.	11	3435
Mansfeld, Florian; Han, L. T.; Lee, C. C. Analysis of Electrochemical Noise Data for Polymer Coated Steel in the Time and Frequency Domains	12	L288
Mansour, Azzam N.; Melendres, Carlos A.; Poon, S. J.; He, Y.; Shiflet, G. J. An X-Ray Absorption Near-Edge Spectroscopic Study of the Structure of Passive Films on Amorphous Al-Fe-Ce Alloys	2	614
Mantegna, R., *see* Aricó, A. S.	12	3950
Manthiram, Arumugam; Tsang, C. Synthesis of Amorphous MoO2+delta and Its Electrode Performance in Lithium Batteries	7	L143
Marassi, R., *see* Kulesza, Pawel J.	1	L10
Marassi, R., *see* Tossici, R.	3	L84
Marcus, P., *see* Maurice, Vincent	4	1182
Marest, G., *see* Baccar, Z. M.	4	1422
Marin, F. Iranzo; Hamstra, M. A.; Vanmaekelbergh, D. Greatly Enhanced Sub-Bandgap Photocurrent in Porous GaP Photoanodes	3	1137
Marinkovic, Nebojsa S.; Calvente, Juan Jose; Kovácová, Zuzana; Fawcett, W. Ronald Studies of the Electrochemical Double Layer at (100) Au in Perchloric Acid Solutions by In Situ Infrared Spectroscopy	8	L171
Markovic, N. M., *see* WidsIÖv, A.	11	3604
Markovsky, B., *see* Aurbach, Doron	12	3809
Markovsky, Boris, *see* Ein-Eli, Yair	12	L273
Marrian, Christie, *see* Waytena, G. L.	7	2392
Marrone, P. A., *see* Mitton, D. B.	3	L89
Marsault, Jean-Pierre, *see* Mostefai, Malik	7	2116
Martelet, C., *see* Baccar, Z. M.	4	1422
Martin, Heidi B.; Argoitia, Alberto; Landau, Uziel; Anderson, Alfred B.; Angus, John C. Hydrogen and Oxygen Evolution on Boron-Doped Diamond Electrodes	6	L133
Martin, K. P., *see* Gillis, H. P.	11	L251
Martin, P., *see* Mayolet, A.	1	330
Martinez, J., *see* Gomez, F. J.	1	271
Maruyama, Toshiro; Akagi, Hisao Fluorine-Doped Tin Dioxide Thin Films Prepared by Radio-Frequency Magnetron Sputtering	1	283
Maruyama, Toshiro; Osaki, Yoshinori Effect of Electrochemical Polarization on Optical Properties of Sputter-Prepared Tin Nitride in Aqueous Electrolyte	1	326
Maruyama, Toshiro; Arai, Susumu	4	1383

Author	Issue	Page
Electrochromic Properties of Cobalt Oxide Thin Films Prepared by Chemical Vapor Deposition		
Maruyama, Toshiro; Kanagawa, Tetsuya	5	1675
Electrochromic Properties of Iron Oxide Thin Films Prepared by Chemical Vapor Deposition		
Maruyama, Toshiro; Akagi, Hisao	6	1955
Chromium Oxide Thin Films Prepared by Chemical Vapor Deposition from Chromium Acetylacetonate and Chromium Hexacarbonyl		
Maruyama, Toshiro; Ohtani, Satoshi	11	3704
Photoluminescence of Porous Silicon in Air		
Maruyama, Toshiro; Akagi, Hisao	12	4087
Thin Films of Amorphous Germanium-Carbon Alloy Prepared by Radio-Frequency Magnetron Sputtering		
Mas, R., *see* Muñoz, Javier	6	2029
Mashiko, Y., *see* Mazumder, Motharul Kabir	1	388
Masuko, Noboro, *see* Ono, Sachiko	3	L62
Masuko, Noboro, *see* Nordlien, Jan Halvor	8	2564
Mathew, J. G. H., *see* Rafia-Yuan, Howard	7	2341
Matlosz, Michael, *see* Madore, C.	12	3927
Matsuda, Tetsuo, *see* Shapiro, Michael J.	7	L156
Matsuda, Yoshiharu, *see* Morita, Masayuki	2	L26
Matsue, Tomokazu, *see* Shibuya, Mashio	10	3157
Matsuhashi, Hideaki, *see* Yoshimaru, Masaki	9	3032
Matsui, Yasuji, *see* Kobayashi, Kiyoteru	4	1459
Matsui, Yasuji, *see* Kobayashi, Kiyoteru	10	3377
Matsukiyo, Hidetsugu; Suzuki, Teruki; Yamamoto, Hajime	5	1696
Factors Inducing Deterioration of InBO3:Tb by Electron Bombardment		
Matsumoto, Isao, *see* Ikoma, Munehisa	6	1904
Matsumoto, Kazuya, *see* Katashiro, Masahiro	11	3771
Matsumoto, Mutsuyoshi, *see* Yamaguchi, Atsuko	2	657
Matsumoto, Osamu, *see* Nozu, Ryutaro	6	1919
Matsumoto, Osamu, *see* Kotaki, Toshiro	6	2003
Matsumura, Michio; Fukidome, Hirokazu	8	2683
Enhanced Etching Rate of Silicon in Fluoride Containing Solutions at pH 6.4		
Matsuo, Y., *see* Grout, H.	7	2093
Matsuura, Haruaki; Okada, Isao; Iwadate, Yasuhiko; Mochinaga, Junichi	1	334
Internal Cation Mobilities in the Molten Binary Systems (Y, La)Cl3 and (Y, Dy)Cl3		
Matsuura, Haruaki; Okada, Isao; Nomura, Masao; Okamoto, Makoto; Iwadate, Yasuhiko	12	3830
The Isotope Effect on the Internal Cation Mobility of Molten Dysprosium Chloride		
Matsuzaka, Takashi, *see* Yamaguchi, Atsuko	2	657
Matsuzaki, A., *see* Nakashima, Sadao	1	244
Matsuzawa, Takashi; Aoki, Y.; Takeuchi, N.; Murayama, Y.	6	2070
A New Long Phosphorescent Phosphor with High Brightness, SrAl2O4:Eu2+,Dy3+		
Matthiesen, F.; Christensen, E.; von Barner, J. H.; Bjerrum, Niels J.	6	1793
The Redox Chemistry of Niobium(V) Fluoro and Oxofluoro Complexes in LiF-NaF-KF Melts		
Mattos, O. R., *see* D'Elia, E.	3	961
Matveeva, E. S., *see* Parkhutik, V. P.	12	3943
Maurice, Vincent; Yang, W. P.; Marcus, P.	4	1182
XPS and STM Study of Passive Films Formed on Fe-22Cr(110) Single-Crystal Surfaces		
Maynard, Helen L.; Rietman, Ed A.; Lee, John T. C.; Ibbotson, Dale E.	6	2029
Plasma Etching Endpointing by Monitoring Radio-Frequency Power Systems with an Artificial Neural Network		
Mayolet, A.; Zhang, W.; Martin, P.; Chassigneux, B.; Krupa, J. C.	1	330
The Intermediate Role of the Gd3+ Ions in the Efficiency of the Host-Sensitized Luminescence in the Lanthanum Metaborate Host Lattice		
Mayusumi, Masanori, *see* Habuka, Hitoshi	2	677
Mazumder, Motharul Kabir; Kobayashi, K.; Ogata, Tamotsu; Mitsuhashi, J.; Mashiko, Y.; Koyama, H.	1	388
Conduction and Charge-Trapping Characteristics of MOS Capacitors with Oxidized Nitride Films of Different Nitride Thicknesses under Positive Stress Bias		
McBreen, J.; Yang, X. Q.; Lee, H. S.; Okamoto, Y.	10	3198
X-Ray Absorption Studies of ZnCl2-PEO and Mixed Salt ZnCl2/KCl-PEO and ZnCl2/CsCl-PEO Complexes		
McBreen, J., *see* Lee, H. S.	12	3825
McBreen, James, *see* Mukerjee, Sanjeev	7	2285
McCafferty, E., *see* Hansen, Douglas C.	1	114
McColgin, W. C., *see* Labens, J. A.	9	2906
McConica, Carol M., *see* Bell, David A.	1	296
McCormack, M.; Badding, M. E.; Vyas, Brijesh; Zahurak, S. M.; Murphy, D. W.	2	L31
The Role of Microcracking in ZrCrNi Hydride Electrodes		
McDonald, R. J., *see* Smith, Alan R.	1	339
Mchedlidze, Teimouraz, *see* Nishimura, Masashi	10	L243
McKinnon, W. R., *see* Zheng, Tao	7	2137
McLarnon, Frank, *see* Wang, Kuilong	2	422
McLarnon, Frank R., *see* Ridgway, Paul L.	2	406
McLarnon, Frank R., *see* Ridgway, Paul L.	2	412
McLarnon, Frank R., *see* Deng, Zhongyi	5	1514
McMillan, Rod S., *see* Shu, Z. X.	7	2230
Meas, Y., *see* Sánchez, H.	9	2799
Medernach, John W.; Hill, T. A.; Myers, S. M.; Headley, T. J.	2	725
Microstructural Properties of Helium Implanted Void Layers in Silicon as Related to Front-Side Gettering		
Meech, John A., *see* Tromans, Desmond	6	L123
Meenan, B. J., *see* Feng, H.	6	2048
Melendres, C. A., *see* Simpson, L. J.	7	2146
Melendres, Carlos A., *see* Mansour, Azzam N.	2	614
Melman, A., *see* Peled, E.	1	L4
Menachem, C., *see* Peled, E.	1	L4
Ménard, Hugues, *see* Fournier, Joël	3	919
Mendicino, M. A., *see* Ditchfield, R	1	268
Mengeritsky, E.; Dan, P.; Weissman, I.; Zaban, A.; Aurbach, Doron	7	2110
Safety and Performance of Tadiran TLR-7103 Rechargeable Batteries		
Menictas, C., *see* Skyllas-Kazacos, Maria	4	L86
Menna, Pietro; Tsuo, Y. S.; Al-Jassim, M. M.; Asher, S. E.; Pern, F. J.; Ciszek, T. F.	6	L115
Light-Emitting Porous Silicon from Cast Metallurgical-Grade Silicon		
Merchant, Tushar P.; Cole, J. Vernon; Knutson, Karson L.; Hebb, Jeffrey P.; Jensen, Klavs F.	6	2035
A Systematic Approach to Simulating Rapid Thermal Processing Systems		
Mertens, Paul W., *see* Li, Li	1	233
Mertens, Paul W., *see* Teerlinck, I.	10	3323
Messina, R., *see* Jean, M.	2	391
Mészáros, G., *see* Mészáros, Lajos	11	3897
Mészáros, Lajos; Mészáros, G.; Pimát, A.; Lengyel, B.	11	3897
An Experimental Study of Iron Corrosion in Sulfuric Acid Solution Containing Inhibitors by Noise Measurement		
Meuris, M. A., *see* Li, Li	1	233
Meuris, M., *see* Teerlinck, I.	10	3323
Mi, Yanming, *see* Zhao, Wei	7	2346
Miao, Jianmin, *see* Dumka, Deep C.	6	1945
Miecinskas, P., *see* Juzeliunas, E.	5	1525
Miecznikowski, K., *see* Kulesza, Pawel J.	1	L10
Mikhailovski, Yu. N., *see* Petrunin, Maxim A.	1	251
Mileham, J. R., *see* Lee, J. W.	3	1093
Miller, Barry, *see* Vinokur, N.	10	L238
Miller, C., *see* Tsang, Y. L.	4	1454
Miller, D., *see* Hsiao, R.	10	3266
Miller, M., *see* Hilpert, K.	11	3642
Milnes, A. G., *see* Li, X.	3	1014
Minami, Tsutomu, *see* Saito, Toshiharu	2	687
Mishra, K. G.; Paramguru, R. K.	2	510
Kinetics and Mechanism of Electroless Deposition of Copper		
Mishra, K. K., *see* Osseo-Asare, K.	2	749
Mitani, Katsuhiko; Oda, H.; Imamura, Y.; Kasai, J.	3	1151
Effects of Annealing on Damage in AlGaAs Induced by Electron Cyclotron Resonance SF6/CHF3 Plasma Etching		
Mitchell, John A.; Pilner, William R.; Hussey, Charles L.; Stafford, Gery R.	11	3448
Electrodeposition of Cobalt and Cobalt-Aluminum Alloys from a Room Temperature Chloroaluminate Molten Salt		
Mitsas, C. L., *see* Siapkas, D. I.	9	3019
Mitsuhashi, J., *see* Mazumder, Motharul Kabir	1	388
Mitton, D. B.; Marrone, P. A.; Latanision, R. M.	3	L59
Interpretation of the Rationale for Feed Modification in SCWO Systems		
Mitton, D. B.; Latanision, R. M.; Bellucci, F.	10	3307
The Effect of Post-Cure Annealing on the Protective Properties of Polyimides on a Chromium Substrate		
Miura, N., *see* Yan, Y.	2	609
Miura, Norio; Lu, Geyu; Yamazoe, Noboru; Kurosawa, Hideyuki; Hasei, Masaharu	2	L33
Mixed Potential Type NOx Sensor Based on Stabilized Zirconia and Oxide Electrode		
Miura, Norio, *see* Yamaura, Hiroyuki	2	L36
Miura, Norio, *see* Xu, Chao-Nan	7	L148
Miura, Norio, *see* Lu, Geyu	7	L154
Miura, Norio; Ito, Motoki; Lu, Geyu; Yamazoe, Noboru	10	L241
Sodium Ion Conductor Based Sensor Attached with NaNO2 for Amperometric Detection of NO2		
Miura, Norio, *see* Hyodo, T.	11	L266
Miyamura, Y., *see* Nakashima, Sadao	1	244
Miyayama, Masaru, *see* Kunishima, Yoshiko Niki	4	1334
Miyazawa, H., *see* Takeishi, Shunsaku	1	381
Mizuno, S., *see* Lee, Peter	6	2015
Mizusaki, Junichiro; Saito, Takatoshi; Tagawa, Hiroaki	10	3065
A Chemical Diffusion-Controlled Electrode Reaction at the Compact La1-xSrxMnO3/Stabilized Zirconia Interface in Oxygen Atmospheres		
Mizushima, Io; Chikazawa, Masatoshi; Watanabe, Tohru	6	1978
Microstructure of Electrodeposited Cu-Ni Binary Alloy Films		
Mo, Yibo; Hwang, Eujin; Scherson, Daniel A.	1	37
In Situ Quartz Crystal Microbalance Studies of Nickel Hydrous Oxide Films in Alkaline Electrolytes		
Mochinaga, Junichi, *see* Matsuura, Haruaki	1	334
Mochizuki, Norio, *see* Uchida, Hiroyuki	5	1700
Molassioti-Dohms, A.; Dettlaff-Weglikowska, U.; Finkbeiner, S.; Hönle, W.; Weber, JÖrg	8	2674
Photo- and Chemiluminescence from Wohler Siloxenes		
Molloy, J., *see* Feng, H.	6	2048
Monahov, B., *see* Pavlov, D.	11	3616
Montiel, V., *see* Gomis, J. A.	10	3186
Montserrat, J., *see* Pérez-Rodríguez, A.	3	1026
Montserrat, J., *see* Garrido, Blas	12	4059
Moon, Sang H., *see* Han, Jae Hyun	6	1996
Morales, Julián; Pérez Vicente, C.; Santos, J.; Tirado, José L.	9	2847
Electrochemical Characteristics of Crystalline and Amorphous SnS2 in Lithium Cells		
Moralión, E., *see* Gomis, J. A.	10	3186
Morante, J. R., *see* Pérez-Rodríguez, A.	3	1026
Morante, J. R., *see* Garrido, Blas	12	4059
Mori, Erik Jun, *see* Lebens, J. A.	9	2906
Mori, Mitsuhiro, *see* Naoi, Katsuhiko	8	2517
Morikawa, Yasuyuki, *see* Uchida, Takashi	8	2606
Morimoto, Hideyuki; Kamata, Masahiro; Esaka, Takao	2	567
Nonstoichiometry of Sintered Oxide Ca0.9La0.1MnO3-delta and Its Cathodic Properties in Alkaline Solutions		
Morio, Yasunari, *see* Liu, Ning	9	L214
Morita, Masayuki; Ichimura, Tatsuya; Ishikawa, Masashi; Matsuda, Yoshiharu	2	L26
Effects of the Organic Solvent on the Electrochemical Lithium Intercalation Behavior of Graphite Electrode		
Morita, Shinzo, *see* Inanarmi, Ryoichi	11	3782
Morita, Shinzo, *see* Inanarmi, Ryoichi	11	3784
Moriya, Koji, *see* Yamaura, Hiroyuki	2	L36
Morris, M., *see* Yang, S.-H.	11	3784
Morris, S. J., *see* Yang, S.-H.	11	3784
Morrison, N. A., *see* Rigden, J. S.	3	1033
Mostefai, Malik; Pham, Minh-Chau; Marsault, Jean-Pierre; Aubard, Jean; Lacaze, Pierre-Camille	7	2116
Study of the Redox Process of Poly(5-amino-1-naphthol) Thin Film by In Situ Raman Spectroscopy		
Motoura, Hisami, *see* Nishimura, Masashi	10	L243
Mua, Y.; Quickenden, T. I.	8	2558
Power Conversion Efficiency, Electrode Separation, and Overpotential in the Ferricyanide/Ferrocyanide Thermogalvanic Cell		
Mubarak, Mohammad S.; Peters, Dennis G.	12	3833
Electrochemical Reduction of 1,8-Dibromo- and 1,8-Diiodooctane and of 1,10-Dibromo- and 1,10-Diiododecane at Carbon Cathodes in Dimethylformamide		
Mugikura, Yoshihiro; Selman, J. Robert	8	2442
Meniscus Behavior of Metals and Oxides in Molten Carbonate under Oxidant and Reducing Atmospheres. I. Contact Angle and Electrolyte Displacement		
Mukai, K., *see* Yi, K.-W.	2	722
Mukerjee, Sanjeev; McBreen, James	7	2285
Hydrogen Electrocatalysis by Carbon Supported Pt and Pt Alloys. An In Situ X-Ray Absorption Study		
Müller, Bernt, *see* Berger, Horst H.	1	L15
Müller, Bernt, *see* Biermann, Erich	4	1434
Muñoz, Eulogia, *see* Rodríguez-Amaro, Rafael	7	2132
Munoz, J., *see* Shin, Eun-Mi	6	1862
Muñoz, Javier; Bratov, Andrey; Mas, R.; Abramova, N.; Domínguez, Carlos; Bartrolí, Jordi	6	2029
Planar Compatible Polymer Technology for Packaging of Chemical Microsensors		
Mur, Eva, *see* Brillas, Enrique	3	L49
Murai, M.; Takizawa, K.; Soejima, K.; Sotouchi, Hiroko	8	2481
Deformation Mechanism of Porous Nickel Oxide in Molten Li/K Carbonates		
Murai, M.; Takizawa, K.; Soejima, K.; Sotouchi, H.	9	2776
Crystal Growth of gamma-Lithium Aluminate in Molten Li/K Carbonates		
Murai, M.; Takizawa, K.; Soejima, K.;		

Author	Issue	Page
Sotouchi, H.	11	3458
Lithiation of Alumina in Molten LiI/K Carbonates		
Murakami, Masanori,		
see Wakimoto, Hiroki	5	1705
Murakami, Takeshi, *see* Ikuma, Yasuro	8	2898
Murakami, Tomoya, *see* Kondo, Kazuo	4	L75
Murakami, Yasushi, *see* Ito, Minoru	1	32
Murao, Yukinobu, *see* Kubo, Akira	5	1769
Murayama, Y., *see* Matsuzawa, Takashi	8	2670
Murphy, B., *see* Esfandyari, J.	3	995
Murphy, D. W., *see* McCormack, M.	2	L31
Murphy, R. J., *see* Tsuchiaki, Masakatsu	7	2378
Murray, J. J., *see* Shu, Z. X.	7	2230
Murray, Royce W., *see* Pyati, Radha	2	401
Murthy, Mahesh; Nagarajan, Gowri S.; Weidner, John W.; Van Zee, John W.	7	2319
A Model for Galvanostatic Deposition of Nickel Hydroxide		
Musher, Joshua N.; Gordon, Roy G.	2	736
Atmospheric Pressure Chemical Vapor Deposition of Titanium Nitride from tetrakis(Diethylamido) Titanium and Ammonia		
Musil, Christian R.,		
see Padeste, Celestino	12	3890
Myers, S. M., *see* Medernach, John W.	2	725
Myers, S. M., *see* Benton, J. L.	4	1406
Naem, A., *see* Bardwell, Jennifer A.	11	L256
Näfe, Helfried	3	943
Thermodynamic Stability and Electronic Conductivity of Na-beta-Alumina		
Nafshun, Richard L.,		
see Holcomb, Nelson R.	4	1297
Nagai, S., *see* Nakamura, M.	9	2876
Nagarajan, Gowri S.,		
see Murthy, Mahesh	7	2319
Nagayama, Tomio, *see* Fujiwara, Yutaka	8	2584
Nair, M. T. S., *see* Garcia, V. M.	9	2892
Nair, P. K., *see* Garcia, V. M.	9	2892
Naito, Masaru, *see* Yamaha, Takahisa	3	1043
Naito, Masaru, *see* Yamaha, Takahisa	10	3297
Naka, Toshio, *see* Sakiyama, Keizo	3	L67
Nakabayashi, S.; Zama, K.; Uosaki, K.	7	2258
Nonlinear Iron Electrochemical Oscillator: Coupling and Photo Effects		
Nakacho, Yoshifumi, *see* Liu, Ning	7	2287
Nakae, Akira, *see* Fujiwara, Yutaka	8	2584
Nakagawa, T., *see* Kenjo, Tadao	4	L92
Nakai, Katsuhiko, *see* Iwasaki, Toshio	10	3383
Nakajima, T, *see* Groult, H.	7	2093
Nakamura, M.; Kitamura, E.; Suzuki, T.; Nagai, S.; Sunaga, H.; Aoki, Y.; Naramoto, H.	9	2876
Photoluminescence Measurements of Low-Level Oxygen in Thin Silicon Crystal Using a C-O Complex Formed Through Carbon Implantation		
Nakamura, S., *see* Yi, K.-W.	2	722
Nakamura, T., *see* Kondo, M.	6	1949
Nakamura, Tadashi,		
see Kobayashi, Kiyoteru	10	3377
Nakanishi, Toshiro, *see* Sugino, Rinji	8	2691
Nakano, Kenichi,		
see DeSalvo, Gregory C.	11	3652
Nakashima, Sadao; Katayama, T.; Miyamura, Y.; Matsuzaki, A.; Kataoka, M.; Ebi, D.; Imai, M.; Izumi, K.; Ohwada, N.	1	244
Investigations on High-Temperature Thermal Oxidation Process at Top and Bottom Interfaces of Top Silicon of SIMOX Wafers		
Nakashizu, Tsuneo, *see* Iwasaki, Toshio	10	3383
Nakayama, M., *see* Ogura, Kotaro	9	2925
Nakayama, M., *see* Ogura, Kotaro	11	3606
Nakayama, Satoshi, *see* Ikeda, Koichi	5	1715
Nakayama, Satoshi, *see* Itsumi, Manabu	10	3359
Nalimova, V., *see* Tossici, R.	3	L84
Nallet, P., *see* Chassaing, Elizabeth	5	L98
Namavar, Fereydoon,		
see Parkhutik, V. P.	12	3943
Nanjundiah, C., *see* Croce, F.	1	154
Nanjundiah, C., *see* Koch, V. R.	3	798
Naoi, Katsuhiko; Mori, Mitsuhiro; Shinagawa, Yukio	8	2517
Study of Deposition and Dissolution Processes of Lithium in Carbonate-Based Solutions by Means of the Quartz-Crystal Microbalance		
Naramoto, H., *see* Nakamura, M.	9	2876
Nastasi, M., *see* Russell, Stephen W.	7	2349
Natarajan, C.; Nogami, Gyoichi	5	1547
Cathodic Electrodeposition of Nanocrystalline Titanium Dioxide Thin Films		
Nayak, B. B., *see* Paramguru, R. K.	12	3987
Nazar, L. F., *see* Leroux, F.	9	L181
Nazarov, A. P., *see* Petrunin, Maxim A.	1	251
Nazzarro, M., *see* Andreasen, G.	2	466
Neudecker, Bernd J.; Weppner, W.	7	2198
Li_9SiAlO_8: A Lithium Ion Electrolyte for Voltages above 5.4 V		
Newman, David S.; Potter, Mary; Fang, Leuh; Davy, Randall; Parker, D.	1	183
Structure, 1H NMR Spectra, Thermodynamics, and Transport Properties of Molten Salt Solutions. I. 4-Methylpyridinium Chloride and 4-Methylpyridinium Iodide		
Newman, John, *see* Paxton, Blaine	4	1287
Newman, John, *see* Pillay, Bavanethan	6	1806
Newman, John, *see* Doyle, Marc	6	1890
Newport, R. J., *see* Rigden, J. S.	1	292
Newport, R. J., *see* Rigden, J. S.	3	1033
Nguyen, B., *see* Lee, Peter	6	2015
Nguyen, B., *see* Sánchez, H.	9	2799
Nguyen, Bang C., *see* Robles, Stuardo	4	1414
Nguyen, Son V., *see* Shapiro, Michael J.	7	L156
Nguyen, Trung V.	5	L103
A Gas Distributor for Proton-Exchange-Membrane Fuel Cells		
Nieminen, Minna, *see* Dücso, Csaba	2	683
Nilinistö, L., *see* Dücso, Csaba	2	683
Ning, X. J.	10	3389
Distribution of Residual Stresses in Boron Doped p+ Silicon Films		
Nisancioglu, Kemal,		
see Nordlien, Jan Halvor	8	2564
Nisancioglu, Kemal, *see* Sunde, Svein	11	3497
Nishihara, Hiroshi, *see* Kawai, Tatsuya	12	3866
Nishimura, Masashi; Yoshino, Shiroh; Motoura, Hisami; Shimura, Seichi; Mchedlidze, Teimouraz; Hikone, Tsuneo	10	L243
The Direct Observation of Grown-in Laser Scattering Tomography Defects in Czochralski Silicon		
Nishina, Tatsuo, *see* Lee, Choong-Gon	7	2315
Nishina, Tatsuo, *see* Shibuya, Mashio	10	3157
Nishiyama, Haruo; Aizawa, Masanobu; Yokokawa, Harumi; Horita, Teruhisa; Sakai, Natsuko; Dokiya, Masayuki; Kawada, Tatsuya	7	2332
Stability of Lanthanum Calcium Chromite-Lanthanum Strontium Manganite Interfaces in Solid Oxide Fuel Cells		
Nishizawa, Matsuhiko; Kuwabata, Susumu; Yoneyama, Hiroshi	11	3482
Photoimage Formation in a TiO_2 Particle-Incorporated Prussian Blue Film		
Niu, Z. G., *see* Yi, K.-W.	2	722
Nixon, Paul G., *see* Holcomb, Nelson R.	4	1297
Nnodimele, Rani,		
see Franklin, Thomas C.	11	3435
Nogami, G., *see* Ohkubo, Suehiro	10	3273
Nogami, Gyoichi, *see* Aoki, Akihiko	9	L191
Nogami, Gyoichi, *see* Shiratsuchi, R.	2	582
Nogami, Gyoichi, *see* Natarajan, C.	5	1547
Nogami, Gyoichi; Ohkubo, Suehiro	7	2220
Current Responses to an Impulse Laser Light Illumination in Semiconductor Electrodes		
Nogami, Gyoichi; Ohkubo, Suehiro; Avalle, Lucia; Hongo, Kazutaka	11	3600
Modulation Spectroscopy of Subbandgap Light in Reduced TiO_2 Electrodes		
Nogami, Masayuki, *see* Abe, Yoshihiro	1	144
Noguchi, H., *see* Yi, K.-W.	2	722
Nojiri, Takeshi, *see* Yamashita, Kimihiro	7	2180
Nolan, P. E., *see* Jiao, Jun	3	932
Nomura, Masao, *see* Matsuura, Haruaki	12	3830
Noponen, T., *see* Heikonen, J.	12	3972
Nordell, N.; SchÖner, A.; Andersson, S. G.	9	2910
Design and Performance of a New Reactor for Vapor Phase Epitaxy of 3C, 6H, and 4H SiC		
Nordlien, Jan Halvor; Nisancioglu, Kemal; Ono, Sachiko; Masuko, Noboro	8	2564
Morphology and Structure of Oxide Films Formed on MgAl Alloys by Exposure to Air and Water		
Norman, E. B., *see* Smith, Alan R.	1	339
Norton, Michael L., *see* Liang, Ming	10	3117
Notten, Peter H. L.; Kremers, M.; Griessen, R.	10	3348
Optical Switching of Y-Hydride Thin Film Electrodes. A Remarkable Electrochromic Phenomenon		
Noufi, R. N.,		
see Bhattacharya, Raghu Nath	3	854
Nozu, Ryutaro; Matsumoto, Osamu	6	1919
Hydrogenation of C60 by Electrolysis of KOH-H_2O Solution		
Obata, Koji, *see* Suda, Yoshiyuki	8	2502
Obradovich, B., *see* Yang, S.-H.	11	3784
Obraztsov, A. N.; Timoshenko, V. Yu.	3	1061
Local Monitoring of Diamond Nucleation Density		
Obraztsov, A. N.; Kashkarov, P. K.; Zoteev, A. V.; Sorokin, I. N.; Sosnovskikh, Yu. N.	3	1109
Nature of Charge Traps in Anode Oxide Films on GaAs		
Obraztsov, A. N.; Guseva, M. B.; Petrukhin, A. G.; Petrov, A. V.	3	1112
Silicon-Diamond Interface Band Structure		
O'Brien, Sean, *see* Somashekar, Ambika	9	2885
Oda, H., *see* Mitani, Katsuhiko	3	1151
Oda, Katsuya; Kiyota, Yukihiro	7	2361
H2 Cleaning of Silicon Wafers before Low-Temperature Epitaxial Growth by Ultrahigh Vacuum/Chemical Vapor Deposition		
Odom, R. W., *see* Smith, Alan R.	1	339
Oetjen, H.-F.; Schmidt, V. M.; Stimming, U.; Trila, F.	12	3838
Performance Data of a Proton Exchange Membrane Fuel Cell Using H2/CO as Fuel Gas		
Ofori, John Y.; Sotirchos, Stratis V.	6	1962
Structural Model Effects on the Predictions of Chemical Vapor Infiltration Models		
Ogata, Tamotsu,		
see Mazumder, Motharul Kabir	1	368
Ogata, Tamotsu, *see* Kobayashi, Kiyoteru	4	1459
Ogata, Tsutomu, *see* Hirai, Toshiro	4	1305
Ogawa, Hiroki, *see* Inomata, Carlos R.	9	2995
Ogawa, Taro, *see* Yamaguchi, Atsuko	2	657
O'Grady, William E.; Pandya, K. I.; Swider, K. E.; Corrigan, D. A.	5	1613
In Situ X-Ray Absorption Near-Edge Structure Evidence for Quadrivalent Nickel in Nickel Battery Electrodes		
Ogumi, Zempachi, *see* Inaba, Minoru	8	2572
Ogura, Kotaro; Shiigi, H.; Nakayama, M.	9	2925
A New Humidity Sensor Using the Composite Film Derived from Poly(o-phenylenediamine) and Poly(vinyl alcohol)		
Ogura, Kotaro; Nakayama, M.; Kusumoto, C.	11	3606
In Situ Fourier Transform Infrared Spectroscopic Studies on a Metal Complex-Immobilized Polyaniline/Prussian Blue-Modified Electrode and the Application to the Electroreduction of CO_2		
Oh, Seung M., *see* Jang, Dong H.	7	2204
Ohashi, Masayoshi, *see* Kanno, Ryoji	8	2435
Ohiwa, T., *see* Tsuchiaki, Masakatsu	7	2378
Ohkubo, Suehiro, *see* Nogami, Gyoichi	7	2220
Ohkubo, Suehiro; Ashida, Y.; Utsumi, T.; Hongo, K.; Nogami, G.	10	3273
The Role of Metal Hydrides in Electrode Reactions on Metal Oxide Semiconductors		
Ohkubo, Suehiro, *see* Nogami, Gyoichi	11	3600
Ohmi, Tadahiro	9	2957
Total Room Temperature Wet Cleaning for Si Substrate Surface		
Ohno, Katsutoshi; Kusunoki, Tsuneo	3	1063
The Effect of Ultrafine Pigment Color Filters on Cathode Ray Tube Brightness, Contrast, and Color Purity		
Ohno, Kazuhide; Sato, Masaaki; Arita, Yoshinobu	12	4089
Reactive Ion Etching of Copper Films in an $SiCl_4$, N_2, Cl_2, and NH_3 Mixture		
Ohomori, Masashi, *see* Fujino, Naohiko	12	4125
Ohsaka, Takeo, *see* Yamada, Keizo	12	4006
Ohta, Akira, *see* Uchida, Makoto	7	2245
Ohta, Ryo, *see* Katashiro, Masahiro	11	3771
Ohtani, Satoshi, *see* Maruyama, Toshiro	11	3704
Ohwada, N., *see* Nakashima, Sadao	1	244
Ohwaki, Takeshi, *see* Kozawa, Takahiro	1	L17
Oizumi, Hiroaki, *see* Yamaguchi, Atsuko	2	657
Okada, Isao, *see* Matsuura, Haruaki	1	334
Okada, Isao, *see* Matsuura, Haruaki	12	3830
Okada, T., *see* Yamamoto, Kenichi	12	4119
Okamoto, Makoto, *see* Matsuura, Haruaki	12	3830
Okamoto, Y., *see* McBreen, J.	10	3198
Okamoto, Y., *see* Lee, H. S.	12	3825
Okayama, Yasunori, *see* Aoyama, Tomonori	3	977
Okino, Fujio, *see* Liu, Ning	9	L214
Okino, Fujio, *see* Liu, Ning	7	2287
Oku, Takeo, *see* Wakimoto, Hiroki	5	1705
Okushi, Naoya, *see* Saeki, Isao	7	2226
Okuyama, Kazuo, *see* Lee, William	9	2795
Okuyama, M., *see* Xu, W.	3	1133
Olsen, I. I., *see* West, Keld	3	820
Olsen, Ib I.; Koksbang, René	2	570
A Temperature Study of the Ionic Conductivity of a Hybrid Polymer Electrolyte		
Olson, R. J., Jr.; Kazior, T. E.; Lane, B.; Holber, W. M.; Bourget, L.	1	288
Optimization of Low Damage, High Resolution Etch Process for SiNx in an ECR Reactor		
Omi, Takashi, *see* Izaki, Masanobu	3	L53
Omura, Yasuhisa, *see* Itsumi, Manabu	7	2357
Onda, Takayuki, *see* Sakiyama, Keizo	3	L67
Onda, Takayuki, *see* Hara, Tohru	8	L166
Ondrechen, M. J., *see* Koch, V. R.	3	798
O'Neil, Patricia A., *see* Violette, Katherine E.	10	3290
Onishi, Sigeo, *see* Hara, Tohru	11	L264
Ono, Sachiko; Asami, Katsuhiko; Osaka, Tetsuya; Masuko, Noboro	3	L62
Structure of Anodic Films Formed on Magnesium		
Ono, Sachiko, *see* Nordlien, Jan Halvor	8	2564
Ooi, Kenta, *see* Kanoh, Hirofumi	3	905
Ooi, Kenta, *see* Kanoh, Hirofumi	8	2610
Oosterlaken, T. G. M.; Leusink, G. J.; Janssen, G. C. A. M.; Radelaar, S.	5	1668
The Hydrogen Reduction of WF_6: A Kinetic Study Based on In Situ Partial Pressure Measurements		
Opila, R. L., *see* Fiorino, M. Elaine	8	2422
Orazem, Mark E.; Agarwal, Pankaj; Deslouis, Claude; Tribollet, Bernard	3	948
Application of Measurement Models to Electrohydrodynamic Impedance Spectroscopy		
Orazem, Mark E.; El Moustafid, Touriya; Deslouis, Claude; Tribollet, Bernard	12	3880
The Error Structure of Impedance Spectra for Systems with a Large Ohmic Resistance with Respect to the Polarization Impedance		
Orazem, Mark E., *see* Jansen, Andrew N.	12	4086
Orazem, Mark E., *see* Jansen, Andrew N.	12	4074
Orel, B., *see* Svegl, F.	5	1532

Author	Issue	Page
Ortiz, Bertha; Park, S.-M.; Doddapaneni, Narayan	6	1800
Electrochemical and Spectroelectrochemical Studies of Cobalt Phthalocyanine Polymers		
Osaka, Tetsuya, see Ono, Sachiko	3	L82
Osaka, Tetsuya, see Liu, Xingjiang	12	3982
Osaki, Yoshinori, see Maruyama, Toshiro	1	326
Osburn, Carlton M., see Zhang, Kevin X.	2	744
Oshima, Sotaro, see Hara, Tohru	8	L186
Oskam, Gerko; Schmidt, J. C.; Hoffmann, P. M.; Searson, P. C.	8	2531
Electrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. I. Interface States and Recombination Impedance		
Oskam, Gerko; Schmidt, J. C.; Searson, P. C.	8	2538
Electrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. II. Intensity Modulated Photocurrent Spectroscopy		
Osseo-Asare, K.; Wei, Dawei; Mishra, K. K.	2	749
Dissolution Windows for Wet Chemical Processing of Silicon and Silicon Dioxide: Potential-pH Diagrams for the Si-F-H2O System		
Osseo-Asare, K.	4	1339
Etching Kinetics of Silicon Dioxide in Aqueous Fluoride Solutions. A Surface Complexation Model		
Osseo-Asare, K., see Wei, Dawei	10	3192
Osteryoung, Janet G., see Wang, Xiaoping	4	1201
Osteryoung, Janet G., see Wang, Xiaoping	11	3477
Osteryoung, Robert A., see Fuller, Joan	7	L145
Östling, Mikael, see Lundberg, Nils	5	1662
Otsuka, Kiyoshi; Sawada, Hidenori; Yamanaka, Ichiro	11	3491
A Hydrogen-Nitric Oxide Cell for the Synthesis of Hydroxylamine		
Ottow, S.; Lehmann, V.; Föll, H.	1	385
Processing of Three-Dimensional Microstructures Using Macroporous n-Type Silicon		
Owens, B. B., see Le, D. B.	7	2099
Owens, B. B., see Tipton, A. L.	11	3473
Oyama, Noboru, see Sotomura, Tadashi	10	3152
Ozil, P., see Sánchez, H.	9	2799
Öztürk, Mehmet C., see Kühne, Heinz	2	634
Öztürk, Mehmet C., see Violette, Katherine E.	2	649
Öztürk, Mehmet C., see Violette, Katherine E.	10	3290
Padeste, Celestino; Kossek, Sebastian; Lehmann, Hans W.; Musil, Christian R.; Gobrecht, Jens; Tiefenauer, Louis	12	3890
Fabrication and Characterization of Nanostructured Gold Electrodes for Electrochemical Biosensors		
Paik, C.-H., see Park, J. O.	8	L174
Pakalapati, S. N. R.; Popov, B. N.; White, Ralph E.	6	1636
Anodic Oxidation of Ethylenediaminetetraacetic Acid on Platinum Electrode in Alkaline Medium		
Pal, Uday, see Yuan, Shi	10	3214
Palma, Alberto; López-Villanueva, J. A.; Carceller, J. E.	8	2687
Electric Field Dependence of the Electron Capture Cross Section of Neutral Traps in SiO2		
Palomar-Pardavé, Manuel; Ramírez, Ma. Theresa; González, Ignacio; Serruya, Abraham; Scharifker, Benjamín R.	5	1551
Silver Electrocrystallization on Vitreous Carbon from Ammonium Hydroxide Solutions		
Pamplin, Kim L.; Johnson, Dennis C.	7	2119
Electrocatalysis of Anodic Oxygen-Transfer Reactions: Oxidation of Cr(III) to Cr(VI) at Bi(V)-Doped PbO2-Film Electrodes		
Pan, B. H.; Lee, Jim Y.	9	2784
Electrochromism of Electrochemically Codeposited Composites of Phosphomolybdic Acid and Tungstan Trioxide		
Pandya, K. I., see O'Grady, William E.	5	1613
Panero, S.; Spila, E.; Scrosati, Bruno	2	L29
A New Type of a Rocking-Chair Battery Family Based on a Graphite Anode and a Polymer Cathode		
Papageorgiou, N.; Athanassov, Y.; Armand, M.; Bonhote, P.; Pettersson, H.; Azam, A.; Grätzel, Michael	10	3099
The Performance and Stability of Ambient Temperature Molten Salts for Solar Cell Applications		
Parab, K., see Yang, S.-H.	11	3784
Paramguru, R. K., see Mishra, K. G.	2	510
Paramguru, R. K.; Nayak, B. B.	12	3987
Galvanic Interaction Between Manganese Dioxide and Pyrite		
Park, Hyun-Soo, see Kim, Kwang-Wook	9	2717
Park, J. O.; Paik, C.-H.; Alkire, Richard C.	8	L174
Scanning Microsensors for Measurement of Local pH Distributions at the Microscale		
Park, J.-H., see Ma, B.	5	1736
Park, Jin W., see Kim, D.-H.	9	L188
Park, Jin Won, see Byun, Jeong Soo	3	L56
Park, S. K., see Choi, E. S.	2	624
Park, S.-M., see Johnson, Bryan J.	4	1259
Park, S.-M., see Johnson, Bryan J.	4	1277
Park, S.-M., see Ortiz, Bertha	6	1800
Park, Soon Ja, see Yoo, Do Joon	4	L89
Park, Su-Moon, see Cai, Ming	7	2125
Park, Su-Moon, see Cai, Ming	12	3895
Park, Young-Bae, see Kim, Dong-Hwan	8	2540
Parker, Chris, see Zhang, Kevin X.	2	744
Parker, D., see Newman, David S.	1	183
Parkhutik, V. P.; Matveeva, E. S.; Namavar, Fereydoon; Kalcoran, Nader	12	3943
Mechanism of AC Electrical Transport of Carriers in Freshly Formed and Aged Porous Silicon		
Parks, C., see Shapiro, Michael J.	7	L156
Parks, C., see Tsuchiaki, Masakatsu	7	2378
Parks, Harold G., see Jeon, Joong S.	9	2870
Passerini, S., see Le, D. B.	7	2099
Passerini, S., see Tipton, A. L.	11	3473
Pavlov, D.; Monshov, B.	11	3818
Mechanism of the Elementary Electrochemical Processes Taking Place during Oxygen Evolution on the Lead Dioxide Electrode		
Paxton, Blaine; Newman, John	4	1287
Variable Diffusivity in Intercalation Materials. A Theoretical Approach		
Páslat, M., see Ganz, M.	5	1654
Pearton, S. J., see Lee, J. W.	1	L1
Pearton, S. J., see Lee, J. W.	8	L169
Pearton, S. J., see Ren, F.	9	L217
Pearton, S. J., see Stradmann, R. R.	9	L219
Pearton, S. J., see Vartuli, C. B.	10	L246
Pearton, S. J., see Gillis, H. P.	11	L251
Pearton, S. J.; Lee, J. W.; Lambers, E. S.; Abernathy, C. R.; Ren, F.; Hobson, W. S.; Shul, R. J.	2	752
Comparison of Dry Etching Techniques for III-V Semiconductors in CH4/H2/Ar Plasmas		
Pearton, S. J., see Lee, J. W.	3	1093
Pearton, S. J., see Lee, J. W.	6	2010
Pearton, S. J., see Shul, R. J.	10	3285
Pearton, S. J., see Ren, F.	10	3394
Pearton, S. J., see Hong, J.	11	3656
Pearton, S. J., see Vartuli, C. B.	11	3681
Pébère, N., see D'Elia, E.	3	961
Peck, D. H., see Hilpert, K.	11	3642
Pederson, Larry R., see Stevenson, J. W.	9	2722
Pederson, Larry R., see Armstrong, Timothy R.	9	2919
Peignon, M. C.; Cléinet, F.; Turban, G.	4	1347
Contact Etching Process Characterization by Using Angular X-Ray Photoelectron Spectroscopy Technique		
Pejovnik, S., see Kvk, Darja	5	1690
Pejovnik, S., see Jamnik, J.	10	3148
Pekala, R. W., see Farmer, Joseph C.	1	159
Peled, E.; Menachem, C.; Bar-Tow, D.; Melman, A.	1	L4
Improved Graphite Anode for Lithium Ion Batteries Chemically Bonded SEI and Nanochannel Formation		
Pereira-Ramos, J. P., see Baddour-Hadjean, R.	7	2083
Pereira-Ramos, J. P., see Bach, S.	11	3429
Pérez-Rodríguez, A.; Romano-Rodríguez, A.; Morante, J. R.; Acero, M. C.; Esteve, J.; Montserrat, J.; El-Hassani, A.	3	1026
Etch-Stop Behavior of Buried Layers Formed by Substoichiometric Nitrogen Ion Implantation into Silicon		
Pérez Vicente, C., see Morales, Julián	9	2847
Pern, F. J., see Menna, Pietro	6	L115
Peters, Dennis G., see Mubarak, Mohammad S.	12	3833
Peterson, David; Winnick, Jack	3	L58
A Hydrogen Sulfide Fuel Cell Using a Proton-Conducting Solid Electrolyte		
Petit, Michel A.; Plichon, Vincent	9	2789
Electrochemical Behavior of WO3 Films in H3PO4/H2O Binary Mixtures		
Petric, Anthony, see Huang, Peng-nian	5	1644
Petrov, A. V., see Obraztsov, A. N.	3	1112
Petrukhin, A. G., see Obraztsov, A. N.	3	1112
Petrunin, Maxim A.; Nazarov, A. P.; Mikhailovski, Yu. N.	1	251
Formation Mechanism and Anticorrosive Properties of Thin Siloxane Films on Metal Surfaces		
Pettersson, H., see Papageorgiou, N.	10	3099
Pettiford, Carl I., see DeSalvo, Gregory C.	11	3652
Pham, Minh-Chau, see Mostefai, Malik	7	2116
Philipose, George, see Bladon, John J.	4	1206
Phillips, J., see Bardwell, Jennifer A.	9	2931
Pickering, Jason P., see Dudel, Frank P.	8	L164
Pierce, Keith G., see Shen, James J.	6	2088
Piersma, Bernard J.; Ryan, David M.; Schumacher, Eric R.; Riechel, Thomas L.	3	908
Electrodeposition and Stripping of Lithium and Sodium on Inert Electrodes in Room Temperature Chloroaluminate Molten Salts		
Pillay, Bavanethan; Newman, John	6	1806
The Influence of Side Reactions on the Performance of Electrochemical Double-Layer Capacitors		
Pillay, Gautam; Chen, Chao-Peng	10	3410
Report of the Electrolytic Industries for the Year 1995		
Pinizzotto, Russell F., see Zhang, Libing	2	L42
Pinizzotto, Russell F., see Zhang, Libing	4	1390
Piqueras, J., see Gomez, F. J.	1	271
Pirnát, A., see Mészáros, Lajos	11	3597
Pitner, William R.; Hussey, Charles L.; Stafford, Gery R.	1	138
Electrodeposition of Nickel-Aluminum Alloys from the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten Salt		
Pitner, William R., see Mitchell, John A.	11	3448
Plantier, A., see Baccar, Z. M.	4	1432
Pletcher, Derek, see Genders, J. David	1	175
Plichon, Vincent, see Petit, Michel A.	9	2789
Ploehn, Harry J., see Zhang, Wenlin	12	4039
Plougonven, ChrisBan, see Bertagna, Valérie	11	3532
Poate, J. M., see Benton, J. L.	4	1406
Poco, John F., see Farmer, Joseph C.	1	159
Podlaha, Elizabeth J.; Landolt, D.	3	885
Induced Codeposition. I. An Experimental Investigation of Ni-Mo Alloys		
Podlaha, Elizabeth J.; Landolt, D.	3	893
Induced Codeposition. II. A Mathematical Model Describing the Electrodeposition of Ni-Mo Alloys		
Poehler, T. O., see Killian, J. G.	3	936
Poenar, Daniel P.; van der Puil, N.; French, P. J.; Wolffenbuttel, R. F.	3	968
Infrared Spectroscopic Analysis of Phosphosilicate Glass Films for Micromachining		
Poindexter, E. H., see Warren, William L.	11	3885
Polyakov, E. G., see Polyakova, L. P.	10	3178
Polyakova, L. P.; Bukatova, G. A.; Polyakov, E. G.; Christensen, E.; von Barner, J. H.; Bjerrum, N. J.	10	3178
Electrochemical Behavior of Boron in LiF-NaF-KF Melts		
Pons, M.; Blanquet, E.; Dedulle, J. M.; Garcon, I.; Madar, R.; Bernard, C.	11	3727
Thermodynamic Heat Transfer and Mass Transport Modeling of the Sublimation Growth of Silicon Carbide Crystals		
Poon, S. J., see Mansour, Azzam N.	2	614
Popov, B. N., see Zheng, G.	2	435
Popov, B. N., see Zheng, G.	3	834
Popov, B. N., see Pakalapati, S. N. R.	5	1636
Popov, B. N., see Coleman, Darryl H.	6	1871
Popov, B. N., see Ramasubramanian, M.	7	2164
Popova, S. N., see Ramasubramanian, M.	7	2164
Potter, Mary, see Newman, David S.	1	183
Prins-Jansen, J. A.; Fehribach, Joseph D.; Hemmes, K.; de Wit, J. H. W.	5	1617
A Three-Phase Homogeneous Model for Porous Electrodes in Molten-Carbonate Fuel Cells		
Psota-Kelty, L., see Lobnig, Renate E.	5	1539
Pu, Cong, see Fan, Qinbai	2	L21
Pu, Cong, see Fan, Qinbai	10	3053
Pyati, Radha; Murray, Royce W.	2	401
Voltammetry and Conductivity of a Polyether-Pyridinium Room Temperature Molten Salt Electrolyte and of Its Polymer Electrolyte Solutions in Polydimethylsiloxane		
Pynenburg, R., see West, Keld	3	820
Qi, Bin; Kim, Donghwan; Williamson, D. L.; Trefny, John U.	2	617
Effects of Postdeposition Heat-Treatment on Morphology and Microstructure of CdTe Grown by Electrodeposition		
Qi, Xiaohe; Baldwin, Richard P.	4	1283
Selective Oxidation of Thiols to Disulfides at Polymeric Cobalt Phthalocyanine Chemically Modified Electrodes		
Qian, Youhua, see He, Zhiping	8	2636
Quach, Tony K., see DeSalvo, Gregory C.	11	3652
Quance, T., see Landheer, D.	6	1681
Quenzer, H. J., see Löchel, Bernd	1	237
Quickenden, T. I.; Xu, Qingzhong	4	1248
Toward a Reliable Value for the Diffusion Coefficient of Cupric Ion in Aqueous Solution		
Quickenden, T. I., see Mua, Y.	8	2552
Quinlan, Kenneth P.	9	L200
Photoelectrochemical Etching of p-InP in Nitric Acid Solutions		
Quinlan, Kenneth P.; Yip, Pearl W.; Rai, Amarendra K.; Wittberg, Thomas N.	2	624
Oxidation of n-InP and Indium in the Negative Potential Region at pH 5		
Rack, M.-J., see Russell, Stephen W.	7	2349
Radelaar, S., see Oosterlaken, T. G. M.	5	1668
Raffa-Yuan, Howard; Mathew, J. G. H.; Hichwa, B. P.	7	2341
Characterization of Proton-Induced Color Transition in an Amorphous Tungsten Oxide Film		
Raghavan, Srini, see Jeon, Joong S.	1	277
Raghavan, Srini, see Jeon, Joong S.	9	2870
Raghavan, Srini, see Kneer, Emil A.	12	4095
Raghunath, Chilkunda, see Kneer, Emil A.	12	4095
Rai, Amarendra K., see Quinlan, Kenneth P.	2	624
Rajeshwar, Krishnan, see Senthurchelvan, R.	1	44
Rajeshwar, Krishnan, see Shin, Eun-Mi	6	1862

Author	Issue	Page
Ramanathan, K., *see* Bhattacharya, Raghu Nath	3	854
Ramasubramanian, M.; Popova, S. N.; Popov, B. N.; White, R. E.; Yin, K.-M. Anomalous Codeposition of Fe-Ni Alloys and Fe-Ni-SiO2 Composites under Potentiostatic Conditions. Experimental Study and Mathematical Model	7	2184
Ramirez, J., *see* Andreasen, G.	2	466
Ramirez, Ma. Theresa, ... Palomar-Pardavé, Manuel	5	1551
Ramirez, W. Fred, *see* Zhou, Bo	2	619
Raney, Paige E., *see* Armstrong, Timothy R.	9	2919
Rao, Ravi P. Preparation and Characterization of Fine-Grain Yttrium-Based Phosphors by Sol-Gel Process	1	189
Rapisarda, C., *see* Fracassi, Francesco	2	701
Rathousky, J., *see* Kavan, Ladislav	2	384
Ratnakumar, B. V., *see* Witham, Charles	9	L205
Ratnakumar, B. V.; Timmerman, Paul; Sanchez, C.; Di Stefano, S.; Halpert, G. Predictions from the Macrohomogeneous Model of an Aerospace Ni-Cd Battery	3	803
Ratnakumar, B. V.; Witham, C.; Bowman, R. C., Jr.; Hightower, A.; Fultz, B. Electrochemical Studies on LaNi5-xSnx Metal Hydride Alloys	8	2578
Rausch, S.; Wendt, Hartmut Morphology and Utilization of Smooth Hydrogen-Evolving Raney Nickel Cathode Coatings and Porous Sintered-Nickel Cathodes	9	2852
Ravikumar, M. K.; Shukla, A. K. Effect of Methanol Crossover in a Liquid-Feed Polymer-Electrolyte Direct Methanol Fuel Cell	8	2601
Rebbert, M. L., *see* Waytena, G. L.	7	2392
Reed, David M.; Anderson, Harlan U.; Huebner, Wayne Characterization of Solid Oxide Fuel Cells by Use of an Internal Pt Voltage Probe	5	1558
Rempel, Aron W., *see* Chen, Antao	11	3648
Remy, J. C., *see* Bouteville, A.	10	3251
Ren, F., *see* Lee, J. W.	1	L1
Ren, F.; Lothian, J. R.; Chen, Y. K.; MacKenzie, J. D.; Donovan, S. M.; Vartuli, C. B.; Abernathy, C. R.; Lee, J. W.; Pearton, S. J. Effect of BCl3 Dry Etching on InAlN Surface Properties	9	L217
Ren, F., *see* Pearton, S. J.	2	752
Ren, F., *see* Lee, J. W.	3	1093
Ren, F., *see* Lee, J. W.	6	2010
Ren, F.; Hobson, W. S.; Lothian, J. R.; Lopata, J.; Pearton, S. J.; Caballero, J. A.; Cole, M. W. Extremely High Etch Rates of In-Based III-V Semiconductors in BCl3/N2 Based Plasma	10	3384
Ren, F., *see* Vartuli, C. B.	11	3681
Ren, Xiaoming; Wilson, Mahlon S.; Gottesfeld, Shimshon High Performance Direct Methanol Polymer Electrolyte Fuel Cells	1	L12
Rennex, Brian G.; Ehrstein, J. R.; Scace, R. I. Methodology for the Certification of Reference Specimens for Determination of Oxygen Concentration in Semiconductor Silicon by Infrared Spectrophotometry	1	258
Renamo, Hakan; Lindström, Henrik; Södergren, Sven; Willstedt, Anna-Karin; Solbrand, Anita; Hagfeldt, Anders; Lindquist, Sten-Eric Photocurrent Losses in Nanocrystalline/Nanoporous TiO2 Electrodes Due to Electrochemically Active Species in the Electrolyte	10	3173
Ressler, J., *see* Le, D. B.	7	2099
Revesz, A. G., *see* Afanas'ev, V. V.	1	347
Revesz, Akos G., *see* Afanas'ev, V. V.	2	695
Reynolds, John R., *see* Larmat, Fernando	8	L161
Rhee, Shi-Woo, *see* Han, Jae Hyun	6	1996
Rhee, Shi-Woo, *see* Kim, Dong-Hwan	8	2840
Rho, Young Gyu, *see* Zhang, Libing	2	L42
Rhodes, H., *see* Iyer, R.	10	3366
Richard, Katherine M.; Gewirth, Andrew A. Observation of Electrode Poisoning during the Electro-oxidation of Aromatic Alcohols on (111) Au	7	2088
Richardson, Thomas J., *see* Wen, S. J.	6	L136
Richardson, Thomas J., *see* Doeff, Marca M.	8	2507
Richardson, Thomas J.; Ross, Philip N., Jr. Overcharge Protection for Rechargeable Lithium Polymer Electrolyte Batteries	12	3992
Ridgway, Paul L.; McLarnon, Frank R.; Cairns, Elton J. Sodium/Phosphorus-Sulfur Cells. I. Cell Performance	2	406
Ridgway, Paul L.; McLarnon, Frank R.; Cairns, Elton J. Sodium/Phosphorus-Sulfur Cells. II. Phase Equilibria	2	412
Riechal, Thomas L., *see* Piersma, Bernard J.	3	908
Rieger, Melissa M., *see* Dudel, Frank P.	8	L164
Riemann, H., *see* Schulze, H.-J	12	4105
Riemenschneider, Rolf, *see* Dumka, Deep C.	8	1948
Rietman, Ed A., *see* Maynard, Helen L.	6	2029
Rigden, J. S.; Newport, R. J. A Reverse Monte Carlo Modeling Study of Diamond-Like Carbon	1	292
Rigden, J. S.; Burke, T. M.; Newport, R. J.; Wilson, JIB; Jubber, M. G.; Morrison, N. A.; John, P. Shallow Angle X-Ray Diffraction from As-Deposited Diamond Thin Films	3	1033
Rigo, S., *see* Baumvol, I. J. R.	4	1426
Rigo, S., *see* Baumvol, Israel J. R.	9	2938
Rigo, S., *see* Baumvol, I. J. R.	9	2946
Ringhofer, Christian A., *see* Gobbert, Matthias K.	8	2624
Roberds, Brian E.; Farrens, Shari N. An Atomic Force Microscopy Study on the Roughness of Silicon Wafers Correlated with Direct Wafer Bonding	7	2365
Robertson, J. D., *see* Wang, Bo	10	3203
Robertson, J., *see* Warren, William L.	11	3685
Robinson, John N., *see* Bladon, John J.	4	1206
Robles, Stuardo; Russell, Kathleen; Galiano, Maria; Siva, V.; Kithcart, Victoria; Nguyen, Bang C. Gap Fill and Film Reflow Capability of Subatmospheric Chemical Vapor Deposited Borophosphosilicate Glass	4	1414
Rodríguez-Amaro, Rafael; Sánchez, Manuel; Muñoz, Eulogia; Ruiz, Juan José; Camacho, Luis Electrochemical Reduction of Lucigenin on Mercury in Aqueous Media	7	2132
Rolfe, S. J., *see* Bardwell, Jennifer A.	11	L256
Rollison, Debra R., *see* Swider, Karen E.	3	813
Romand, M., *see* Charbonnier, M.	2	472
Romankiw, L. T., *see* Shenoy, R. V.	7	2305
Romano-Rodríguez, A., *see* Pérez-Rodríguez, A.	3	1026
Romero, José R., *see* de Andrade, Adalgisa R.	8	2452
Rosler, R., *see* Iyer, R.	10	3366
Rosolen, J. M.; Decker, F. Stress in Carbon Film Electrodes during Li+ Electrochemical Intercalation	8	2417
Ross, J. R. H., *see* Berger, R. J.	10	3186
Ross, P. N., Jr., *see* Wen, S. J.	6	L136
Ross, P. N., Jr., *see* Widelöv, A.	11	3504
Ross, Philip N., Jr., *see* Wang, Kuilong	2	422
Ross, Philip N., Jr., *see* Richardson, Thomas J.	12	3992
Rotondaro, A. L. P.; Hurd, T. Q; Kaniava, A.; Vanhellemont, J.; Simoen, E.; Heyns, M. M.; Claeys, C.; Brown, G. Impact of Fe and Cu Contamination on the Minority Carrier Lifetime of Silicon Substrates	9	3014
Rotondaro, Antonio L. P.; Bender, H.; Heyns, M. M.; Claeys, C. Protrusion Formation at the Edges of Ion Implanted Regions	6	L118
Rouelle, Francois, *see* Bertagna, Valérie	11	3532
Rougier, A.; Graversau, P.; Delmas, Claude Optimization of the Composition of the Li1-zNi1+zO2 Electrode Materials: Structural, Magnetic, and Electrochemical Studies	4	1168
Roy, J. J.; Grantham, L. F.; Grimmett, D. L.; Fusselman, S. P.; Krueger, C. L.; Storvick, T. S.; Inoue, T.; Sakamura, Y.; Takahashi, N. Thermodynamic Properties of U, Np, Pu, and Am in Molten LiCl-KCl Eutectic and Liquid Cadmium	8	2487
Roy, S. C.; Christensen, P. A.; Hamnett, A.; Thomas, K. M.; Trapp, V. Direct Methanol Fuel Cell Cathodes with Sulfur and Nitrogen-Based Carbon Functionality	10	3073
Roy, Sudipto R.; Haji-Sheikh, A. Modeling and Analysis of a New Multiwafer Hot Wall Phosphorus Doping Reactor	4	1362
Rudnicki, James D., *see* Deng, Zhongyi	5	1514
Ruiz, Juan José, *see* Rodríguez-Amaro, Rafael	7	2132
Rusakova, I., *see* Zagozdzon-Wosik, W.	9	2981
Russell, J. B., *see* Lebens, J. A.	9	2906
Russell, Kathleen, *see* Robles, Stuardo	4	1414
Russell, Stephen W.; Rack, M.-J.; Adams, Daniel; Alford, T. L.; Levine, T. E.; Nastasi, M. Titanium Nitridation on Copper Surfaces	7	2349
Ryan, David M., *see* Piersma, Bernard J.	3	908
Ryu, Myung-Kwan, *see* Kim, Jin-Won	1	363
Sadamoto, Miho, *see* Watanabe, Koji	9	3008
Saeki, Isao; Okushi, Naoya; Kanno, H.; Furuichi, Ryusaburo The Photoelectrochemical Response of TiO2-WO3 Mixed Oxide Films Prepared by Thermal Oxidation of Titanium Coated with Tungsten	7	2226
Saga, Koichiro; Hattori, Takeshi Identification and Removal of Trace Organic Contamination on Silicon Wafers Stored in Plastic Boxes	10	3279
Saida, Shigehiko, *see* Aoyama, Tomonori	3	977
Saidi, M. Y., *see* Shi, Hang	11	3486
Saidi, Yazid M., *see* West, Keld	3	820
Saito, Kazuyuki; Sato, Yoshiyuki; Yabumoto, Norikuni; Homma, Yoshikazu Investigation of Defect Concentration in Implanted Silicon Substrates by Hydrogen Decoration	12	4101
Saito, Kunio; Arita, Yoshinobu Cause of Aligned-Orientation Growth of Titanium Silicide in Plasma Enhanced Chemical Vapor Deposition	11	3778
Saito, Kyoichi, *see* Lee, William	9	2795
Saito, Takatoshi, *see* Mizusaki, Junichiro	10	3065
Saito, Takeyasu, *see* Takami, Seiichi	2	L38
Saito, Toshiharu; Tatsumisago, Masahiro; Minami, Tsutomu Phase Transformation and Lattice Strain of alpha-AgI Stabilized in Superionic Glass	2	687
Saito, Yoji; Takagi, Teruo Effects of Plasma Excitation and Chemical Pretreatment on Adsorption of Tungsten Hexafluoride on Silicon and Silicon Dioxide Studied by X-Ray Photoelectron Spectroscopy	11	3670
Sakaebe, Hikari, *see* Kanamura, Kiyoshi	9	2713
Sakai, Natsuko, *see* Horita, Teruhisa	4	1161
Sakai, Natsuko, *see* Nishiyama, Haruo	7	2332
Sakai, Y., *see* Yamada, Naoki	4	1375
Sakamura, Y., *see* Roy, J. J.	8	2487
Sakiyama, Keizo; Naka, Toshio; Kaneko, Seiji; Onda, Takayuki; Hara, Tohru Amorphization of Thin Si Layers by Arsenic Ion Implantation	3	L87
Sakiyama, Keizo, *see* Hara, Tohru	11	L264
Sales, B. C., *see* Wang, Bo	10	3203
Salmi, A., *see* Lantelme, Frederic	11	3662
Salomon, M., *see* Croce, F.	1	154
Salomon, Mark, *see* Walker, Charles W., Jr.	4	L80
Salot, Raphaël; Lefebvre-Joud, F.; Baroux, B. Electrochemical Behavior of Thin Anodic Oxide Films on Zircaloy-4. Role of the Mobile Defects	12	3902
Salvarezza, R. C., *see* Andreasen, G.	2	466
Salvarezza, R. C., *see* Carro, P.	7	2294
Samms, S. R.; Wasmus, S.; Savinell, Robert F. Thermal Stability of Proton Conducting Acid Doped Polybenzimidazole in Simulated Fuel Cell Environments	4	1225
Samms, S. R.; Wasmus, S.; Savinell, Robert F. Thermal Stability of Nafion in Simulated Fuel Cell Environments	5	1498
Sanchez, C., *see* Ratnakumar, B. V.	3	803
Sánchez, H.; Chainet, E.; Nguyen, B.; Ozil, P.; Meas, Y. Electrochemical Deposition of Silver from a Low Cyanide Concentration Bath	9	2799
Sánchez, Manuel, *see* Rodríguez-Amaro, Rafael	7	2132
Sandi, Giselle; Winans, Randall E.; Carrado, Kathleen A. New Carbon Electrodes for Secondary Lithium Batteries	5	L95
Sanganeria, Mahesh K., *see* Kühne, Heinz	2	634
Sankara Narayanan, T. S. N., *see* Franklin, Thomas C.	9	2789
Santana, C. J., *see* Lee, J. W.	1	L1
Santana, C. J., *see* Lee, J. W.	3	1093
Santos, J., *see* Morales, Julián	9	2847
Sarangapani, S.; Tilak, B. V.; Chen, C.-P. Materials for Electrochemical Capacitors. Theoretical and Experimental Constraints	11	3791
Sasaki, K.; Wurth, J. P.; Gschwend, R; Gödickemeier, M.; Gauckler, L. J. Microstructure-Property Relations of Solid Oxide Fuel Cell Cathodes and Current Collectors. Cathodic Polarization and Ohmic Resistance	2	530
Sato, Masaaki, *see* Ohno, Kazuhide	12	4089
Sato, Shinobu, *see* Ishihara, Tatsumi	6	1908
Sato, Yoshiyuki, *see* Saito, Kazuyuki	12	4101
Sato, Yuichi; Ito, Katuhiko; Arakawa, Takumi; Kobayakawa, Koichi Possible Cause of the Memory Effect Observed in Nickel-Cadmium Secondary Batteries	10	L225
Satoh, Y., *see* Takeishi, Shunsaku	1	381
Savadogo, O.; Essalik, A. Effect of Platinum Particle Size on the Oxygen Reduction Reaction on 2% Pt-1% H2WO4 in Phosphoric Acid	8	1814
Savadogo, O.; Beck, P. Five Percent Platinum-Tungsten Oxide-Based Electrocatalysts for Phosphoric Acid Fuel Cell Cathodes	12	3842
Savinell, R. F., *see* Wang, Dacong	4	1260
Savinell, Robert F., *see* Weber, M.	7	L158
Savinell, Robert F., *see* Dalmia, A.	2	556
Savinell, Robert F., *see* Samms, S. R.	4	1225
Savinell, Robert F., *see* Wang, J.-T	4	1233
Savinell, Robert F., *see* Samms, S. R.	5	1498
Savinell, Robert F., *see* Dalmia, A.	6	1827
Sawada, Hidenori, *see* Otsuka, Kiyoshi	11	3491
Sawada, Y., *see* Tatsumi, K.	6	1923
Scaboo, Kris, *see* Chambers, James Q.	10	3039

Author	Issue	Page
Scace, R. I., see Rennex, Brian G.	1	258
Scarmino, J., see Gorenstein, Annette	9	2822
Schaper, Charles; Kailath, Thomas Thermal Model Validation for Rapid Thermal Chemical Vapor Deposition of Polysilicon	1	374
Scharifker, Benjamin R., see Palomar-Pardavé, Manuel	5	1551
Schechter, A., see Aurbach, Doron	12	3809
Schechter, Alexander, see Ein-Eli, Yair	12	L273
Schefold, J. Impedance and Current-Voltage Behavior of a Semiconductor/Liquid Junction with a Small Energy Barrier	5	1598
Scherson, Daniel A., see Mo, Yibo	1	37
Scherson, Daniel A., see Tolmachev, Yuriy V.	10	3180
Scherson, Daniel A., see Tolmachev, Yurity V.	11	3539
Schilardi, P., see Carro, P.	7	2294
Schmeisser, C., see Esfandyari, J.	3	995
Schmerling, Michael, see Huang, Keqin	11	3630
Schmidt, H. F., see Teerlinck, I.	10	3323
Schmidt, J. C., see Oskam, Gerko	8	2531
Schmidt, J. C., see Oskam, Gerko	8	2538
Schmidt, V. M., see Oetjen, H.-F.	12	3838
Schmidt, Wolfgang U.; Alkire, Richard C.; Gewirth, Andrew A.	10	3122
Mechanistic Study of Copper Deposition onto Gold Surfaces by Scaling and Spectral Analysis of In Situ Atomic Force Microscopic Images		
Schmuki, Patrik; Virtanen, Sannakaisa; Davenport, Alison J.; Vitus, Carissima M.	2	574
In Situ X-Ray Absorption Near-Edge Spectroscopic Study of the Cathodic Reduction of Artificial Iron Oxide Passive Films		
Schmuki, Patrik; Fraser, J.; Vitus, C. M.; Graham, M. J.; Isaacs, H. S.	10	3316
Initiation and Formation of Porous GaAs		
Schmuki, Patrik; Virtanen, Sannakaisa; Davenport, Alison J.; Vitus, C. M.	12	3997
Transpassive Dissolution of Cr and Sputter-Deposited Cr Oxides Studied by In Situ X-Ray Near-Edge Spectroscopy		
Schmutz, Caroline N., see Doyle, Marc	6	1890
SchÖner, A., see Nordell, N	9	2910
Schröter, W., see Gaiseanu, Florin	1	361
Schübler, Martin; Statzner, T.; Lin, C. I.; Krozer, V.; Horn, J.; Hartnagel, H. L.	4	L73
Electrochemical Deposition of Pd, Ti, and Ge for Applications in GaAs Technology		
Schulze, H.-J; Lüdge, Anke; Riemann, H.	12	4105
High-Resolution Measurement of Resistivity Variations in Power Devices by the Photoscanning Method		
Schumacher, Eric R., see Piersma, Bernard J.	3	908
Schwartz, Daniel T., see Leith, Steven D.	3	873
Scrosati, Bruno, see Appelecchi, G. Battista	1	6
Scrosati, Bruno, see Panero, S.	2	L29
Scrosati, Bruno, see Tossici, R.	3	L64
Scully, J. R., see Frankel, Gerald S.	6	1834
Scully, John R., see Kolman, D. G.	6	1847
Seager, C. H., see Warren, William L.	11	3685
Searson, P. C., see Killian, J. G.	3	936
Searson, P. C., see Oskam, Gerko	8	2531
Searson, P. C., see Oskam, Gerko	8	2538
Seebauer, E. G., see Ditchfield, R	1	266
Seebauer, Edmund G., see Southwell, R. P.	5	1726
Sees, Jennifer, see Chyan, Oliver M. R.	1	92
Sees, Jennifer A., see Chyan, Oliver M. R.	10	L235
Segre, C. U., see Ma, B.	5	1736
Seki, Yasuhiro, see Watanabe, Masahiro	12	3847
Sekine, Kohei, see Hara, Tohru	8	L168
Selman, J. Robert, see Mugikura, Yoshihiro	8	2442
Senkader, S., see Esfandyari, J.	3	995
Senthurchelvan, R.; Wang, Y.; Basak, S.; Rajeshwar, Krishnan	1	44
Reduction of Hexavalent Chromium in Aqueous Solutions by Polypyrrole. II. Thermodynamic, Kinetic, and Mechanistic Aspects		
Senthurchelvan, R., see Shin, Eun-Mi	5	1582
Sényarich, S., see Bernard, M. C.	8	2447
Seo, Masahiro; Ueno, Kaoru	3	899
Piezoelectric Detection of Changes in Surface Energy of Gold Electrode in Perchlorate Solutions Containing Iodide Ions		
Seo, Sang-Hun, see Kim, Jung-Hyung	9	2990
Seon, Jeong Min, see Byun, Jeong Soo	3	L58
Seong, Seoyearl, see Anderson, Alfred B.	6	2075
Seraphin, S., see Jiso, Jun	3	932
Serruya, Abraham, see Palomar-Pardavé, Manuel	5	1551
Sewell, James S., see DeSalvo, Gregory C.	11	3652
Shabani, Mohammad B.; Yoshimi, Toshihiro; Abe, Hidenobu	6	2025
Low-Temperature Out-Diffusion of Cu from Silicon Wafers		
Shacham-Diamand, Yosef, see Desilva, Melvin	4	L78
Shacham-Diamand, Yosi, see DeSilva, Melvin J.	11	3512
Shao, Chunlin; Soga, Tetsuo; Umeno, Masayoshi; Hattori, Shuzo	12	4109
Synchrotron-Radiation-Excited Etching of Silicon Wafer Enhanced by Disk-Shaped CF4 Plasma		
Shapiro, Michael J.; Matsuda, Tetsuo; Nguyen, Son V.; Parks, C.; Dziobkowski, C.	7	L156
Fluorine Diffusion from Fluorosilicate Glass		
Shen, James J.; Cook, Lee M.; Pierce, Keith G.; Loncki, Scott B.	6	2068
Nonparticulate Origins of Light Point Defects on Polished Silicon Wafers		
Shenoy, R. V.; Datta, M.; Romankiw, L. T.	7	2305
Investigation of Island Formation during Through-Mask Electrochemical Micromachining		
Shenoy, Ravindra V.; Datta, M.	2	544
Effect of Mask Wall Angle on Shape Evolution during Through-Mask Electrochemical Micromachining		
Sheridan, D., see Casady, Jeffrey B.	5	1750
Shi, H.-R., see Li, G.-X.	2	L24
Shi, Hang; Barker, J.; Saidi, M. Y.; Koksbang, R.	11	3486
Structure and Lithium Intercalation Properties of Synthetic and Natural Graphite		
Shi, J. H., see Zagozdzon-Wosik, W.	9	2981
Shi, Yongqiang, see Chen, Antao	11	3648
Shiba, T., see Kondo, M.	6	1949
Shibasaki, Akio, see Lee, William	9	2795
Shibuya, Mashio; Nishina, Tatsuo; Matsue, Tomokazu; Uchida, Isamu	10	3157
In Situ Conductivity Measurements of LiCoO2 Film during Lithium Insertion/Extraction by Using Interdigitated Microarray Electrodes		
Shie, Jin-Shown, see Huang, Chen-Tang	6	2044
Shiflet, G. J., see Mansour, Azzam N.	2	614
Shigi, H., see Ogura, Kotaro	9	2925
Shilling, Marcia L.; Katz, Howard E.; Houlihan, Francis M.; Stein, Susan M.; Hutton, R. S.; Taylor, G. N.	2	691
Selective Electroless Nickel Deposition on Patterned Phosphonate and Carboxylate Polymer Films		
Shimaya, Masakazu, see Itsumi, Manabu	11	3757
Shimbo, Masaru; Yoshikawa, Jun	7	2371
New Silicon Bonding Method		
Shimizu, K., see Wood, G. C.	1	74
Shimizu, K., see Habazaki, H.	8	2465
Shimizu, Masao, see Hamakawa, Satoshi	4	1264
Shimokawa, R., see Kashiwagi, Y.	12	4079
Shimono, T., see Yamamoto, Kenichi	12	4119
Shimura, Seiichi, see Nishimura, Masashi	10	L243
Shin, Eun-Mi; Senthurchelvan, R.; Munoz, J.; Basak, S.; Rajeshwar, Krishnan; Benglas-Smith, Gallis; Howell, Bennet C., III	5	1582
Photolytic and Photocatalytic Destruction of Formaldehyde in Aqueous Media		
Shin, Shik, see Suda, Yoshiyuki	8	2802
Shin, Young J., see Jang, Dong H.	7	2204
Shin, Young-Joon, see Kim, Kwang-Wook	9	2717
Shinagawa, Yukio, see Naoi, Katsuhiko	8	2517
Shinde, Kazuhiko, see Hirai, Toshiro	4	1305
Shinohara, Kunio, see Kondo, Kazuo	4	L75
Shinohara, Kunio, see Kondo, Kazuo	6	1880
Shinohara, R., see Takeishi, Shunsaku	1	381
Shiono, Noboru, see Itsumi, Manabu	11	3757
Shiotani, Masaru, see Tang, Heqing	10	3579
Shiraishi, Soshi, see Kanamura, Kiyoshi	7	2187
Shiraishi, Soshi, see Kanamura, Kiyoshi	8	2548
Shiramizu, Yoshimi; Watanabe, Kaori; Tanaka, Masaru; Aoki, Hidemitsu; Kitajima, Hiroshi	5	1632
Removal of Metal and Organic Contaminants from Silicon Substrates Using Electrolysis-Ionized Water Containing Ammonium Chloride		
Shirane, Takayuki, see Kanno, Ryoji	8	2435
Shiratsuchi, R.; Nogami, Gyoichi	2	582
Pulsed Electroreduction of CO2 on Silver Electrodes		
Shive, L. W., see Lebens, J. A.	9	2906
Shono, Katsufusa, see Kasamatsu, Akifumi	2	712
Shu, Z. X.; McMillan, Rod S.; Murray, J. J.; Davidson, I. J.	7	2230
Use of Chloroethylene Carbonate as an Electrolyte Solvent for a Graphite Anode in a Lithium-Ion Battery		
Shukla, A. K., see Ravikumar, M. K.	8	2601
Shul, R. J., see Pearton, S. J.	2	752
Shul, R. J.; Howard, A. J.; Pearton, S. J.; Abernathy, C. R.; Vartuli, C. B.	10	3288
High-Density Etching of Group III Nitride Ternary Films		
Shul, R. J., see Vartuli, C. B.	11	3681
Shumsky, Mark G., see Breyfogle, Bryan E.	9	2741
Siapkas, D. I.; Hatzopoulos, N.; Katsidis, C. C.; Zorba, T.; Mitsas, C. L.; Hammerl, P. L. F.	9	3019
Structural and Compositional Characterization of High Energy Separation by Implantation of Oxygen Structures Using Infrared Spectroscopy		
Siconolfi, D. J., see Lobnig, Renate E.	4	1175
Siconolfi, D. J., see Lobnig, Renate E.	5	1839
Siddle, J. R., see Batchelor, R. A.	3	1080
Sigmon, T. W., see Deng, C.	8	2678
Silva, Julio C., see Tromans, Desmond	2	458
Simard-Normandin, M., see Bardwell, Jennifer A.	11	L256
Simka, H.; Hierlemann, Matthias; Utz, M.; Jensen, Klavs F.	8	2646
Computational Chemistry Predictions of Kinetics and Major Reaction Pathways for Germane Gas-Phase Reactions		
Simoen, E., see Rotondaro, A. L. P.	9	3014
Simonet, Jacques, see Boryczka, Stanislaw	12	4027
Simonin, Jean-Pierre, see Lehmani, Albert	6	1860
Simons, D., see Zagozdzon-Wosik, W.	9	2981
Simonsson, Daniel, see Sone, Yoshitsugu	4	1254
Simpson, L. J.; Melendres, C. A.	7	2148
Surface-Enhanced Raman Spectroelectrochemical Studies of Corrosion Films on Iron in Aqueous Carbonate Solution		
Sinclair, J. D., see Lobnig, Renate E.	4	1175
Sinclair, J. D., see Lobnig, Renate E.	5	1839
Singh, Babu R., see Dumka, Deep C.	5	1948
Singh, R. N., see Tiwari, S. K.	5	1505
Singh, S. P., see Tiwari, S. K.	5	1505
Sirman, J. D.; Kilmer, J. A.	10	L229
Surface Exchange Properties of Ce0.9Gd0.1O2-x Coated with La1-xSrxFeyCo1-yO3-delta		
Siva, V., see Robles, Stuardo	4	1414
Skaarup, S., see West, Keld	3	820
Skaldon, P., see Wood, G. C.	1	74
Skaldon, P., see Habazaki, H.	8	2465
Skyllas-Kazacos, Maria; Menictas, C.; Kazacos, M.	4	L86
Thermal Stability of Concentrated V(V) Electrolytes in the Vanadium Redox Cell		
Slaven, S., see Gerouki, A.	11	L262
Slaven, Simon, see Goldner, Ronald B.	6	L129
Sloop, Steven E.; Lerner, Michael M.	4	1292
Study of the Poly(oxymethylene oligo-(oxy-ethylene))/Lithium Metal Interface. Comparison of Linear, Cross Linked, and Alkylated Electrolyte Films		
Smekalin, Konstantin; Fertig, D.	12	L281
Microscale Dishing Effect in a Chemical Mechanical Planarization Process for Trench Isolation		
Smeltzer, W. W., see Czerwinski, F.	9	3000
Smith, Alan R.; McDonald, R. J.; Manini, H.; Hurley, D. L.; Norman, E. B.; Valla, M. C.; Odom, R. W.	1	339
Low-Background Instrumental Neutron Activation Analysis of Silicon Semiconductor Materials		
Smotkin, Eugene S., see Fan, Qinbai	2	L21
Smotkin, Eugene S., see Fan, Qinbai	10	3053
Smyrl, W. H., see Le, D. B.	7	2099
Smyrl, W. H., see Tipton, A. L.	11	3473
Smyrl, William H., see James, Patrick	12	3853
Snell, C. M., see Yang, S.-H.	11	3784
Soares, D. M., see Teschke, Omar	5	L100
Soave, Robert, see Desilva, Melvin	4	L78
Söderbärg, Anders, see Edholm, Bengt	4	1326
Söderbärg, Anders, see Ljungberg, Karin	5	1709
Södergren, Sven, see Ransmo, Hakan	10	3173
Soejima, K., see Murai, M.	8	2481
Soejima, K., see Murai, M.	9	2776
Soejima, K., see Murai, M.	11	3456
Soga, Takashi, see Yamaguchi, Atsuko	2	657
Soga, Tetsuo, see Shao, Chunlin	12	4109
Sohn, H.-J., see Kim, Y.-S.	2	505
Sohn, Hun-Joon, see Kwak, S. I.	9	2770
Solbrand, Anita, see Renamo, Hakan	10	3173
Soloducho, Jadwiga, see Lamat, Fernando	8	L101
Soltz, David; Cescato, Lucila	9	2915
Potential-Induced Changes in the Surface Morphology of (100) n-InP Samples Photoelectrochemically Etched		
Somasekhar, Ambika; O'Brien, Sean	9	2985
Etching SiO2 Films in Aqueous 0.49% HF		
Sone, Yoshitsugu; Ekdunge, Per; Simonsson, Daniel	4	1254
Proton Conductivity of Nafion 117 as Measured by a Four-Electrode AC Impedance Method		
Song, X. Y.; Kinoshita, Kimio; Tran, Tri D.	6	L120
Microstructural Characterization of Lithiated Graphite		
Song, Zengfu, see Zhao, Wei	7	2346
Sonnenberg, Wade, see Bladon, John J.	4	1206
Sorokin, I. N., see Obraztsov, A. N.	3	1109
Sosnovskikh, Yu. N., see Obraztsov, A. N.	3	1109
Sotiriches, Stratis V., see Ofori, John Y.	6	1962
Sotomura, Tadashi; Tatsuma, Tetsu; Oyama, Noboru	10	3152
An Organosulfur Polymer Cathode with a High Current Capability for Rechargeable Batteries		
Sotouchi, H., see Murai, M.	9	2776

Author	Issue	Page
Sotouchi, H., *see* Murai, M.	11	3458
Sotouchi, Hiroko, *see* Murai, M.	8	2481
Soucaze-Guillous, Benoit; Kutner, Wlodzimierz; Jones, M. Thomas; Kadish, Karl M. Electroreduction of C60 in Aprotic Solvents. III. Voltammetric Study, at Microelectrode, of C60n- (n = 0 to 4) Solvation in the Absence of Supporting Electrolyte	2	550
Southwell, R. P.; Seebauer, Edmund G. A Predictive Kinetic Model for the Chemical Vapor Deposition of TiSi2	5	1726
Spear, Jonathan D., *see* Deng, Zhongyi	5	1514
Spila, E., *see* Panero, S.	2	L29
Springer, Thomas E.; Zawodzinski, Thomas A.; Wilson, Mahlon S.; Gottesfeld, Shimshon Characterization of Polymer Electrolyte Fuel Cells Using AC Impedance Spectroscopy	2	587
Srinivasan, Supramaniam, *see* Büchi, Felix N.	3	927
Srinivasan, Supramaniam, *see* Zhang, Wenlin	12	4039
Srivastava, A. M.; Beers, W. W. Luminescence of Mn4+ in the Distorted Perovskite Gd2MgTiO6	9	L203
Srivastava, A. M.; Ackerman, J. F. Luminescence of Cs2NbOF5: Vibrational Structure in [NbOF5]2- Luminescence	10	L234
Srivastava, A. M.; Doughty, D. A.; Beers, W. W. Photon Cascade Luminescence of Pr3+ in LaMgB5O10	12	4113
St. Clair, Jennifer, *see* Harris, Thomas M.	12	3918
Stadniychuk, Helena P.; Anderson, Marc A.; Chapman, Thomas W. Sol-Gel-Derived Thin-Film Manganese Dioxide Cathodes	5	1629
Stafford, Gery R., *see* Pitner, William R.	1	130
Stafford, Gery R., *see* Mitchell, John A.	11	3448
Stampor, W., *see* Kalinowski, Jan	1	315
Stanis, C, *see* Hu, C.-K.	3	1001
Statzner, T., *see* Schübler, Martin	4	L73
Stedile, F. C., *see* Baumvol, I. J. R.	4	1426
Stedile, F. C., *see* Baumvol, Israel J. R.	9	2938
Stedile, F. C., *see* Baumvol, I. J. R.	9	2946
Steele, B. C. H., *see* Adler, S. B.	11	3554
Steenhaut, O., *see* Valova, E.	9	2804
Steenhaut, O., *see* Armyanov, S.	11	3692
Steier, William H., *see* Chen, Antao	11	3648
Stein, Susan M., *see* Shilling, Marcia L.	2	691
Steinbrüchel, Christoph, *see* Tacito, Robert D.	6	1974
Steinbrüchel, Christoph, *see* Tacito, Robert D.	8	2695
Stephenson, Richard, *see* Hepel, Maria	2	498
Stevenson, J. W.; Armstrong, T. R.; Carneim, R. D.; Pederson, Larry R.; Weber, W. J. Electrochemical Properties of Mixed Conducting Perovskites La1-xMxCo1-yFeyO3-delta (M = Sr, Ba, Ca)	9	2722
Stevenson, Jeffry W., *see* Armstrong, Timothy R.	9	2919
Stimming, U., *see* Oetjen, H.-F.	12	3838
Stolk, P. A., *see* Benton, J. L.	4	1406
Stolt, L., *see* Kyliner, Angela	8	2662
Stonehart, Paul, *see* Watanabe, Masahiro	12	3847
Storm, W., *see* Baklanov, Mikhail R.	10	3245
Storvick, T. S., *see* Roy, J. J.	8	2487
Stradtmann, R. R.; Lee, J. W.; Abernathy, C. R.; Pearton, S. J.; Hobson, W. S. Ar Plasma-Induced Damage in AlGaAs	9	L219
Stratmann, M., *see* Lobnig, Renate E.	4	1175
Stratmann, M., *see* Lobnig, Renate E.	5	1539
Streckel, H., *see* Lobnig, Renate E.	4	1175
Stricker, David A., *see* Vu, Q.-B.	4	1372
Striebel, K. A., *see* Wen, S. J.	6	L136
Striebel, K. A.; Deng, C. Z.; Wen, S. J.; Cairns, Elton J. Electrochemical Behavior of LiMn2O4 and LiCoO2 Thin Films Produced with Pulsed Laser Deposition	6	1821
Su, Mianzeng, *see* Zhao, Wei	7	2346
Su, S. H.; Tsai, P. R.; Yokoyama, M.; Su, Y. K. Use of di-Pi-cyclopentadienyl Manganese as a Dopant Source for ZnS in Metallorganic Chemical Vapor Deposition	12	4116
Su, Y. K., *see* Su, S. H.	12	4116
Suda, Yoshiyuki; Koizumi, Tomohiro; Obata, Koji; Tezuka, Yasuhisa; Shin, Shik; Koshida, Nobuyoshi Surface Electronic Structures and Photoluminescence Mechanisms of Porous Si	8	2502
Suehle, J. S., *see* Waytena, G. L.	7	2392
Sugawara, Yasushi, *see* Uchida, Makoto	7	2245
Sugino, Rinji; Nakanishi, Toshiro; Takasaki, Kanetake; Ito, Takashi Identification of MOS Gate Dielectric Breakdown Spot Using High Selectivity C1 Radical Etching Technique	8	2691
Sugita, Kazuyuki, *see* Lee, William	9	2795
Sugo, Takanobu, *see* Lee, William	9	2795
Suh, Moon-Suhk, *see* Kim, Keunjoo	10	3372
Sun, D., *see* Liu, Changwei	12	3874
Sun, I-W., *see* Gau, W.-J.	3	914
Sun, I-Wen, *see* Gau, Wei-Jyh	1	170
Sunaga, H., *see* Nakamura, M.	9	2876
Sunde, Svein Monte Carlo Simulations of Conductivity of Composite Electrodes for Solid Oxide Fuel Cells	3	1123
Sunde, Svein Monte Carlo Simulations of Polarization Resistance of Composite Solid Oxide Fuel Cells for Electrodes	6	1930
Sunde, Svein; Nisancioglu, Kemal; Gür, Turgut M. Critical Analysis of Potential Step Data for Oxygen Transport in Electronically Conducting Perovskites	11	3497
Suzuki, Kimihito, *see* Uchida, Takashi	8	2606
Suzuki, Kunio, *see* Hamakawa, Satoshi	4	1264
Suzuki, T., *see* Nakamura, M.	9	2876
Suzuki, Takashi, *see* Watanabe, Tadaharu	8	2654
Suzuki, Teruki, *see* Matsukiyo, Hidetsugu	5	1696
Svegl, F.; Orel, B.; Hutchins, M. G.; Kalcher, K. Structural and Spectroelectrochemical Investigations of Sol-Gel Derived Electrochromic Spinel Co3O4 Films	5	1532
Svensson, Jan-Erik; Johansson, L.-G. The Synergistic Effect of Hydrogen Sulfide and Nitrogen Dioxide on the Atmospheric Corrosion of Zinc	1	51
Sveshnikova, L. L., *see* Baklanov, Mikhail R.	10	3245
Swain, Greg M., *see* DeClements, Roger	7	L150
Swider, K. E., *see* O'Grady, William E.	5	1613
Swider, Karen E.; Rolison, Debra R. The Chemical State of Sulfur in Carbon-Supported Fuel-Cell Electrodes	3	813
Swider, Karen E.; Worrell, Wayne L. Electronic Conduction Mechaniam in Yttria-Stabilized Zirconia-Titania under Reducing Atmospheres	11	3706
Switzer, Jay A., *see* Breyfogle, Bryan E.	9	2741
Szpunar, J. A., *see* Czerwinski, F.	9	3000
Tachibana, Hiroaki, *see* Yamaguchi, Atsuko	2	657
Tacito, Robert D.; Steinbrüchel, Christoph Fine-line Patterning of Parylene-n by Reactive Ion Etching for Application as an Interlayer Dielectric	6	1974
Tacito, Robert D.; Steinbrüchel, Christoph Patterning of Benzocyclobutene by Reactive Ion Etching	8	2695
Tada, Satoshi, *see* Yamaguchi, Koichi	8	2616
Taga, Yasunori, *see* Kozawa, Takahiro	1	L17
Tagashira, H., *see* Yamada, Naoki	4	1375
Tagawa, Hiroaki, *see* Mizusaki, Junichiro	10	3065
Tägtström, Per, *see* Lundberg, Nils	5	1662
Takagi, Teruo, *see* Saito, Yoji	11	3670
Takahashi, N., *see* Roy, J. J.	8	2487
Takahashi, Takahiro; Hagiwara, K.; Egashira, Y; Komiyama, H. The Effect of Gas-Phase Additives C2H4, C2H6, and C2H2 on SiH4/O2 Chemical Vapor deposition	4	1355
Takai, Osamu, *see* Futsuhara, Masanobu	11	3743
Takakubo, Hajime, *see* Kasamatsu, Akifumi	2	712
Takami, Seiichi; Saito, Takeyasu; Fujii, Minoru; Egashira, Yasuyuki; Komiyama, Hiroshi Control of Selective Tungsten Chemical Vapor Deposition by Monolayer Nitridation of Silicon Surface	2	L38
Takano, Mikio, *see* Kanno, Ryoji	8	2435
Takaoka, H., *see* Hirata, Akihiko	11	3747
Takasaki, Kanetake, *see* Sugino, Rinji	8	2691
Takasu, Yoshio, *see* Ito, Minoru	1	32
Takeda, Eiji, *see* Yamaguchi, Atsuko	2	657
Takeda, Kazutoshi The Effect of Mechanical Processing Procedures on the Decomposition Rate of Silver Oxide Cathode Material	2	418
Takeda, Yasuo, *see* Kanno, Ryoji	8	2435
Takehara, Z.-I., *see* Kanamura, Kiyoshi	8	2548
Takehara, Z.-I., *see* Kanamura, Kiyoshi	9	2713
Takehara, Zen-ichiro, *see* Kanamura, Kiyoshi	7	2187
Takehira, Katsuomi, *see* York, Andrew P. E.	11	L249
Takehira, Katsuomi, *see* Hamakawa, Satoshi	4	1264
Takeishi, Shunsaku; Kudoh, H.; Shinohara, R.; Tsukune, A.; Satoh, Y.; Miyazawa, H.; Harada, H.; Yamada, M. Stabilizing Dielectric Constants of Fluorine-Doped SiO2 Films by N2O-Plasma Annealing	1	381
Takenouti, H., *see* Bernard, M. C.	8	2447
Takeuchi, N., *see* Matsuzawa, Takashi	8	2670
Takita, Yusaku, *see* Ishihara, Tatsumi	6	1908
Takizawa, K., *see* Murai, M.	8	2481
Takizawa, K., *see* Murai, M.	9	2776
Takizawa, K., *see* Murai, M.	11	3456
Takoudis, Christos G., *see* Lee, I-Ming Ryan	5	1719
Tamaki, Jun, *see* Yamaura, Hiroyuki	2	L36
Tamaki, Jun, *see* Xu, Chao-Nan	7	L148
Tamaki, Y., *see* Kondo, M.	6	1949
Tamizhmani, G.; Dodelet, J. P.; Guay, D. Crystallite Size Effects of Carbon-Supported Platinum on Oxygen Reduction in Liquid Acids	1	18
Tan, G. A., *see* Khong, Y. L.	11	L254
Tan, G. S., *see* Khong, Y. L.	11	L254
Tanaka, A., *see* Kanamura, Kiyoshi	9	2765
Tanaka, Ken-ichi, *see* Lu, De-ling	7	2105
Tanaka, Masahiro, *see* Watanabe, Koji	9	3006
Tanaka, Masaru, *see* Hara, Tohru	11	L264
Tanaka, Masaru, *see* Shiramizu, Yoshimi	5	1632
Tanaka, Masashi, *see* Yamashita, Kimihiro	7	2180
Tang, Heqing; Kitani, Akira; Shiotani, Masaru Electrochemical Formation of Polyaniline in Selenic Acid	10	3079
Taniguchi, Hoboru; Yasumoto, Eiichi; Gamo, Takaharu Operating Properties of Solid Oxide Fuel Cells Using BaCe0.8Gd0.203-Alpha Electrolyte	6	1886
Tanner, Cameron W.; Virkar, Anil V. Instability of BaCe03 in H20-Containing Atmospheres	4	1386
Tanno, Kazuo, *see* Kumagai, Naoaki	3	1007
Tao, Y., *see* Hussey, Rex J.	1	221
Tao, Y., *see* Landheer, D.	5	1681
Tarascon, J-M., *see* Disma, F.	12	3959
Tarascon, J. M., *see* Amatucci, Glenn G.	3	1114
Tarascon, J. M., *see* Doyle, Marc	6	1890
Tasch, A. F., *see* Wang, C.-L.	7	2387
Tasch, A. F., *see* Yang, S.-H.	11	3784
Tatsuma, Tetsu, *see* Sotomura, Tadashi	10	3152
Tatsumi, K.; Akai, T.; Imamura, T.; Zaghib, K.; Iwashita, N.; Higuchi, S.; Sawada, Y. 7Li-Nuclear Magnetic Resonance Observation of Lithium Insertion into Mesocarbon Microbeads	6	1923
Tatsumisago, Masahiro, *see* Saito, Toshiharu	2	687
Tatsuno, T., *see* Yamamoto, Kenichi	12	4119
Taxil, P., *see* Chamelot, P.	5	1570
Taylor, G. N., *see* Shilling, Marcia L.	2	691
Taylor, S. Ray; Wall, F. D.; Cahen, G. L., Jr. The Detection and Analysis of Electrochemical Damage in Bismaleimide/Graphite Fiber Composites	2	449
Teerlinck, I.; Mertens, Paul W.; Schmidt, H. F.; Meuris, M.; Heyns, M. M. Impact of the Electrochemical Properties of Silicon Wafer Surfaces on Copper Outplating from HF Solutions	10	3323
Tennant, A. L., *see* Bhattacharya, Raghu Nath	3	854
Teramoto, Akinobu, *see* Kobayashi, Kiyoteru	10	3377
Terayama, Katunori, *see* Yamasaki, Sumio	9	L212
Teschke, Omar; Soares, D. M. Isolated Submicrometer Filaments Formed by Silicon Anodization in HF Solutions	5	L100
Teutsch, U., *see* Berndt, D.	3	790
Tezuka, Yasuhisa, *see* Suda, Yoshiyuki	8	2502
Thakur, R. P. S., *see* Iyer, R.	10	3386
Theodore, N. David, *see* Chang, Li-Hsin	7	2353
Thomas, K. M., *see* Roy, S. C.	10	3073
Thomas, Richard R.; Kaufman, Frank B.; Kirieis, Juergen T.; Belsky, Richard A. Wettability of Polished Silicon Oxide Surfaces	2	643
Thomas, S. R., *see* Ein-Eli, Yair	9	L195
Thomas, Stacey R., *see* Ein-Eli, Yair	12	L273
Thompson, G. E., *see* Wood, G. C.	1	74
Thompson, G. E., *see* Habazaki, H.	8	2465
Thonstad, Jomar, *see* Kisza, Adolf	6	1840
Theuin, Laurent, *see* Vedel, Jacques	7	2173
Tian, S., *see* Yang, S.-H.	11	3784
Tiefenauer, Louis, *see* Padeste, Celestino	12	3890
Tilak, B. V., *see* Sarangapani, S.	11	3791
Tilquin, J.-Y., *see* Fournier, Joël	3	919
Timmerman, Paul, *see* Ratnakumar, B. V.	3	803
Timoshenko, V. Yu., *see* Obraztsov, A. N.	3	1061
Tipton, A. L.; Passerini, S.; Owens, B. B.; Smyrl, W. H. Performance of Lithium/V2O5 Xerogel Coin Cells	11	3473
Tirado, José L., *see* Morales, Julián	9	2847
Tiwari, S. K.; Singh, S. P.; Singh, R. N. Effects of Ni, Fe, Cu, and Cr Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic Properties for Oxygen Evolution	5	1505
Tobin, Philip J., *see* Hartig, Michael J.	5	1753
Tokuda, Koichi, *see* Yamada, Keizo	12	4006
Tokumitsu, Katsuhisa; Mabuchi, Akihiro; Fujimoto, Hiroyuki; Kasuh, T. Electrochemical Insertion of Lithium into Carbon Synthesized from Condensed Aromatics	7	2235
Tolmachev, Yuriy V.; Wang, Zhenghao; Scherson, Daniel A. In Situ Spectroscopy in the Presence of Convective Flow under Steady-State Conditions: A Unified Mathematical Formalism	11	3539
Tolmachev, Yuriy V.; Wang, Zhenghao; Scherson, Daniel A. Theoretical Aspects of Laminar Flow in a Channel-Type Electrochemical Cell as Applied to In Situ Attenuated Total Reflection-Infrared	10	3160

Author | Issue | Page

Spectroscopy
Tomita, Masato, *see* Itsumi, Manabu 7 2357
Tomkiewicz, Micha,
see Kahanda, G. L. M. K. S. 4 1214
Tong, Q.-Y.; Gösele, U. 8 1773
A Model of Low-Temperature Wafer Bonding and Its Applications
Torimoto, Tsukasa; Fox, Robert J., III; Fox, Marye Anne 11 3712
Photoelectrochemical Doping of TiO2 Particles and the Effect of Charge Carrier Density on the Photocatalytic Activity of Microporous Semiconductor Electrode Films
Toriyama, Shigetaka,
see Kanamura, Kiyoshi 8 2548
Tossici, R.; Barretoni, M.; Nalimova, V.; Marassi, R.; Scrosati, Bruno 3 L64
A High-Rate Carbon Electrode for Rechargeable Lithium-Ion Batteries
Touhara, Hidekazu, *see* Liu, Ning 9 L214
Touhara, Hidekazu, *see* Liu, Ning 7 2267
Tran, H., *see* Lee, Peter 6 2015
Tran, Tri D., *see* Song, X. Y. 6 L120
Tranchant, A., *see* Jean, M. 2 391
Trapp, V., *see* Roy, S. C. 10 3073
Trefny, John U., *see* Qi, Bin 2 517
Tresaler, James F., *see* Watanabe, Koji 9 3008
Tretheway, Derek; Aydil, Eray S. 11 3674
Modeling of Heat Transport and Wafer Heating Effects during Plasma Etching
Triboilet, Bernard, *see* Orazem, Mark E. 3 948
Triboilet, Bernard, *see* D'Elia, E. 3 961
Triboilet, Bernard, *see* Orazem, Mark E. 12 3880
Trichet, M. F., *see* Chassaing, Elizabeth 5 L98
Trila, F., *see* Oeljen, H.-F. 12 3838
Trimaille, I., *see* Baumvol, I. J. R. 4 1426
Trimaille, I., *see* Baumvol, Israel J. R. 9 2938
Trimaille, I., *see* Baumvol, I. J. R. 9 2946
Tromans, Desmond; Meech, John A.; Veiga, Marcello M. 6 L123
Natural Organics and Environmental Stability of Mercury. Electrochemical Considerations
Tromans, Desmond; Silva, Julio C. 2 458
Anodic Behavior of Copper in Iodide Solutions. Comparison with Chloride and Effect of Benzotriazole-Type Inhibitors
Trulove, Paul C., *see* Carlin, Richard T. 9 2747
Tsai, P. R., *see* Su, S. H. 12 4116
Tsai, Y. C., *see* Yen, S. K. 8 2493
Tsai, Y. C., *see* Yen, S. K. 9 2738
Tsang, C., *see* Manthiram, Arumugam 7 L143
Tsang, Y. L.; Miller, C.; Lii, T. 4 1464
Investigation of Polyimide Residue Due to Reactive Ion Etching in O2
Tseng, W.-T., *see* Liu, C.-W. 2 716
Tseung, Alfred C. C., *see* Chen, K. Y. 9 2703
Tsionsky, V.; Daikhin, L.; Gileadi, E. 7 2240
Response of the Electrochemical Quartz Crystal Microbalance for Gold Electrodes in the Double-Layer Region
Tsuchiaki, Masakatsu; Kvitek, R. J.; Parks, C.; Murphy, R. J.; Ohiwa, T.; Watanabe, T. 7 2378
Impact of Reactive Ion Etching Induced Carbon Contamination on Oxidation of Silicon
Tsuchiaki, Masakatsu; Bruno, A.; Tsunashima, Y.; Watanabe, T. 9 2965
A Study of the Oxidation Slow-Down Mechanism Induced by Carbon Contamination on Silicon Surface
Tsukune, A., *see* Takeishi, Shunsaku 1 381
Tsumori, Yasuo, *see* Iwasaki, Toshio 10 3383
Tsunashima, Y.,
see Tsuchiaki, Masakatsu 9 2965
Tsunoda, Hitoshi, *see* Habuka, Hitoshi 2 677
Tsunoda, Tatsuo, *see* York, Andrew P. E. 11 L249
Tsunoda, Tatsuo,
see Hamakawa, Satoshi 4 1264
Tsuo, Y. S., *see* Menna, Pietro 6 L115
Tsuruta, S., *see* Kohno, Tatsuoki 9 L198
Tsutsumi, Shuji, *see* Jin, Tetsuro 10 3333
Tukamoto, Hisashi, *see* Amine, Khalil 5 1607
Tung, C.-H., *see* Chiu, R.-L. 3 984
Turban, G., *see* Peignon, M. C. 4 1347
Turcanu, Aurora, *see* Bechtold, Thomas 8 2411
Turq, Pierre, *see* Lehmani, Albert 6 1860
Tuttle, J. R.,
see Bhattacharya, Raghu Nath 3 854
Tüttő, P., *see* Horányi, T. S. 1 218
Uchida, Hiroyuki; Mochizuki, Norio; Watanabe, Masahiro 5 1700
High-Performance Electrode for Medium-Temperature Operating Solid Oxide Fuel Cells. Polarization of Ceria-Based Anode with Highly Dispersed Ruthenium Catalysts in (H2 + CO2 + H2O) Gas
Uchida, Hiroyuki,
see Watanabe, Masahiro 12 3847
Uchida, Isamu, *see* Lee, Choong-Gon 7 2315
Uchida, Isamu, *see* Shibuya, Mashio 10 3157
Uchida, Makoto; Fukuoka, Yuko; Sugawara, Yasushi; Eda, Nobuo; Ohta, Akira 7 2245
Effects of Microstructure of Carbon Support in the Catalyst Layer on the Performance of Polymer-Electrolyte Fuel Cells
Uchida, T., *see* Guohua, Li 1 178
Uchida, Takashi; Morikawa, Yasuyuki; Ikuta, Hiromasa; Wakihara, Masataka; Suzuki, Kimihito 8 2606
Chemical Diffusion Coefficient of Lithium in Carbon Fiber
Uchida, Toshihito, *see* Inanarmi, Ryoichi 11 3754
Ue, Makoto 11 L270
Ionic Radius of (CF3SO2)3C- and Applicability of Stokes Law to Its Propylene Carbonate Solution
Ueki, Takemi, *see* Itsumi, Manabu 7 2357
Ueno, Kaoru, *see* Seo, Masahiro 3 899
Uhlmann, D. R., *see* Denesuk, Matthew 9 L186
Umegaki, Takao, *see* Yamashita, Kimihiro 7 2180
Umeno, Masayoshi, *see* Shao, Chunlin 12 4109
Unnikrishnan, S., *see* Wang, C.-L. 7 2387
Uno, Kasumasa, *see* Kondo, Kazuo 6 1880
Uosaki, K., *see* Nakabayashi, S. 7 2258
Urdl, Peter, *see* Binder, Leo 1 13
Utriainen, Mikko, *see* Dücso, Csaba 2 683
Utsumi, T., *see* Ohkubo, Suehiro 10 3273
Utz, M., *see* Simka, H. 8 2646
Valova, E.; Armyanov, S.; Delplancke, J. L.; Winand, R.; Steenhaut, O.; Vereecken, J. 9 2804
Interface with Substrates of High-Phosphorus Electroless NiP and NiCuP Deposited from Nonammonia Alkaline Solutions
van den Meerakker, J. E. A. M.;
Jacobs, J. W. M. 2 L40
Bevel Etching of Tin-Doped Indium Oxide
van der Puil, N., *see* Poenar, Daniel P. 3 968
Vanheliemont, J., *see* Rotondaro, A. L. P. 9 3014
Vanmaekelbergh, D., *see* Emé, Ben H. 1 305
Vanmaekelbergh, D.,
see Marín, F. Iranzo 3 1137
van Ommen, J. G., *see* Berger, R. J. 10 3186
Van Zee, John W., *see* Murthy, Mahesh 7 2319
Varadarajan, M., *see* Cady, W. A. 6 2084
Varturi, C. B., *see* Ren, F. 9 L217
Varturi, C. B.; Pearton, S. J.; MacKenzie, J. D.; Abernathy, C. R. 10 L246
Selective Dry Etching of III-V Nitrides in Cl2/Ar, CH4/H2/Ar, ICl/Ar, and IBr/Ar
Varturi, C. B., *see* Shul, R. J. 10 3285
Varturi, C. B.; Pearton, S. J.; Lee, J. W.; Abernathy, C. R.; MacKenzie, J. D.; Zolper, J. C.; Shul, R. J.; Ren, F. 11 3681
Wet Chemical Etching of AlN and InAlN in KOH Solutions
Vasquez, P., *see* Frsacassi, Francesco 2 701
Vedel, Jacques; Thouin, Laurent; Lincot, Daniel 7 2173
Relation Between Physical Properties and Deposition Conditions of Electrodeposited CuInSe2
Veiga, Marcello M.,
see Tromans, Desmond 6 L123
Vella, M. C., *see* Smith, Alan R. 1 339
Ventzek, Peter L. G., *see* Yamada, Naoki 4 1375
Verbrugge, Mark W.; Koch, Brian J. 1 24
Lithium Intercalation of Carbon-Fiber Microelectrodes
Verbrugge, Mark W.; Baker, Daniel R. 1 197
Convective Diffusion to a Microdisk Sensor Subject to Uniform Shear Flow
Verbrugge, Mark W.; Koch, Brian J. 2 600
Modeling Lithium Intercalation of Single-Fiber Carbon Microelectrodes
Verbrugge, Mark W.; Baker, Daniel R. 7 2252
The Combined Influence of Interfacial Reaction Resistance and Fluid Flow on Microelectrode Sensors
Verbrugge, Mark W.,
see Baker, Daniel R. 7 2396
Vereecken, J., *see* Valova, E. 9 2804
Vereecken, J., *see* Armyanov, S. 11 3692
Verma, A., *see* Lee, Peter 6 2015
Vermeir, I. E.; Gomes, W. P. 4 1319
The Etching of InP by Acidic Iodine Solutions. A Kinetic and Electrochemical Study
Vertommen, Johan,
see Kopalidis, Peter M. 5 1783
Via, G. David, *see* DeSalvo, Gregory C. 11 3652
Vijh, Ashok K., *see* Ye, Siyu 1 L7
Vinokur, N.; Miller, Barry; Avyigal, Y.; Kalish, R. 10 L238
Electrochemical Behavior of Boron-Doped Diamond Electrodes
Violette, Katherine E.; Öztürk, Mahmet C.; Christensen, Kim N.; Maher, Dennis M. 2 649
Silicon Nucleation and Film Evolution on Silicon Dioxide Using Disilane. Rapid Thermal Chemical Vapor Deposition of Very Smooth Silicon at High Deposition Rates
Violette, Katherine E.; O'Neil, Patricia A.; Öztürk, Mehmet C.; Christensen, Kim; Maher, Dennis M. 10 3290
On the Role of Chlorine in Selective Silicon Epitaxy by Chemical Vapor Deposition
Virkar, Anil V., *see* Tanner, Cameron W. 4 1386
Virtanen, Sannakaisa,
see Schmuki, Patrik 2 574
Virtanen, Sannakaisa,
see Schmuki, Patrik 12 3897
Vitus, C. M., *see* Schmuki, Patrik 10 3316
Vitus, C. M., *see* Schmuki, Patrik 12 3897
Vitus, Carissima M., *see* Schmuki, Patrik 2 574
Voloshin, G., *see* George, Mark 10 3257
von Ammon, Wilfried,
see Dornberger, Erich 5 1648
von Barner, J. H., *see* Matthiesen, F. 6 1793
von Barner, J. H., *see* Polyakova, L. P. 10 3178
Vossen, J. P. T.; Ament, P. C. H.; de Wit, J. H. W. 7 2272
Mechanisms for Oxidation and Passive Behavior of Nickel in Molten Carbonate
Vossen, Jack P. T.; Janssen, A. H. H.; de Wit, J. H. W. 1 58
Corrosion Behavior of Nickel-Iron Alloys in Molten Carbonate
Voesen, Jack P. T.; Makkus, R. C.; de Wit, J. H. W. 1 66
Corrosión Behavior of Chromium in Molten Carbonate
Vu, Q.-B.; Stricker, David A.; Zavracky, Paul M. 4 1372
Surface Characteristics of (100) Silicon Anisotropically Etched in Aqueous KOH
Vuorilehto, K., *see* Heikonen, J. 12 3972
Vyas, B., *see* Law, Henry H. 8 2596
Vyas, Brijesh, *see* McCormack, M. 2 L31
Wagner, B., *see* Löchel, Bernd 1 237
Wagner, Rainer 1 139
Investigation on Copper Corrosion in Thin Films of Sulfuric Acid
Wainright, J. S., *see* Wang, Dacong 4 1280
Wainwright, S. P., *see* Hall, S. 10 3364
Wakamatu, Hidetoshi,
see Yoshimaru, Masaki 2 666
Wakihara, M., *see* Guohua, Li 1 178
Wakihara, Masataka,
see Uchida, Takashi 8 2606
Wakimoto, Hiroki; Oku, Takeo; Kokde, Yasuo; Murakami, Masanori 5 1705
Effects of Small Amounts of Silver Added to NiGe Ohmic Contacts to n-Type GaAs
Wakiyama, Shigeru, *see* Fujino, Naohiko 12 4125
Wakizoe, Masanobu, *see* Büchi, Felix N. 3 927
Walker, C. W., *see* Croce, F. 1 154
Walker, Charles W., Jr.; Cox, J. David; Salomon, Mark 4 L80
Conductivity and Electrochemical Stability of Electrolytes Containing Organic Solvent Mixtures with Lithium tris(Trifluoromethanesulfonyl)methide
Wall, F. D., *see* Taylor, S. Ray 2 449
Wallace, J. B., *see* Hsiung, T. H. 8 2429
Wan, C. C., *see* Yang, H. W. 2 429
Wan, C. C., *see* Yang, C. H. 11 3821
Wang, Bo; Bates, J. B.; Hart, F. X.; Sales, B. C.; Zuhr, R. A.; Robertson, J. D. 10 3283
Characterization of Thin-Film Rechargeable Lithium Batteries with Lithium Cobalt Oxide Cathodes
Wang, C.-L.; Unnikrishnan, S.; Kim, B.-Y.; Kwong, Dim-Lee; Tasch, A. F. 7 2387
The Viability of GeH4-Based In Situ Clean for Low Temperature Silicon Epitaxial Growth
Wang, Chao; Chen, Shenhao; Yu, Xiling 12 L283
Anodic Dissolution of Iron in a Magnetic Field with Holographic Microphotography
Wang, Chong Mou, *see* Liou, Yea-Wenn 5 1492
Wang, Chungdar Daniel,
see Abraham-Shrauner, Barbara 2 672
Wang, F., *see* Wang, Zhaoxiang 5 1610
Wang, H.-I, *see* Chiou, J.-C. 3 990
Wang, J-T, *see* Weber, M. 7 L158
Wang, J.-T; Wasmus, S.; Savinell, Robert F. 4 1233
Real-Time Mass Spectrometric Study of the Methanol Crossover in a Direct Methanol Fuel Cell
Wang, Kuilong; Ross, Philip N., Jr.; Kong, Fanping; McLarnon, Frank 2 422
The Reaction of Clean Li Surfaces with Small Molecules in Ultrahigh Vacuum. I. Dioxygen
Wang, Mei-Hui; Hebert, Kurt R. 9 2827
An Electrical Model for the Cathodically Charged Aluminum Electrode
Wang, X., *see* Zhang, S. L. 4 1394
Wang, Xiaoping; Isaev, Nick; Osteryoung, Janet G. 4 1201
Au(III) in Borate Medium: Electrochemical Behavior and Application to Electroplating
Wang, Xiaoping; Issaev, Nick; Osteryoung, Janet G. 11 3477
Spectrophotometric and Electrochemical Study of Gold-Iodide in Aqueous Borate Medium
Wang, Y., *see* Senthurchelvan, R. 1 44
Wang, Y. Y., *see* Yang, H. W. 2 429
Wang, Yung-Yun, *see* Yang, C. H. 11 3821
Wang, Zhaoxiang; Huang, Biying; Huang, Hong; Xue, Rongjian; Chen, Liquan; Wang, F. 5 1610
A Vibrational Spectroscopic Study on the Interaction Between Lithium Salt and Ethylene Carbonate Plasticizer for PAN-based Electrolytes
Wang, Zhenghao,
see Tolmachev, Yuriy V. 10 3160
Wang, Zhenghao,

Author — Issue — Page

see Tolmachev, Yurity V. 11 3539
Warren, William L.; Seager, C. H.; Robertson, J.; Kanicki, J.; Poindexter, E. H. 11 3685
Creation and Properties of Nitrogen Dangling Bond Defects in Silicon Nitride Thin Films
Wasmus, S., see Weber, M. 7 L158
Wasmus, S., see Dalmia, A. 2 556
Wasmus, S., see Samms, S. R. 4 1225
Wasmus, S., see Wang, J.-T 4 1233
Wasmus, S., see Samms, S. R. 5 1498
Watanabe, Hajime, see Kobayashi, Kiyoteru 4 1459
Watanabe, Kaori, see Shiramizu, Yoshimi 5 1632
Watanabe, Koji; Tressler, James F.; Sadamoto, Miho; Isobe, Chiharu; Tanaka, Masahiro 9 3008
Characterization of Solution Derived RuO2 Electrodes for Pb(Zr,Ti)O3 Microcapacitors
Watanabe, Masahiro, see Uchida, Hiroyuki 5 1700
Watanabe, Masahiro; Uchida, Hiroyuki; Seki, Yasuhiro; Emori, Masaomi; Stonehart, Paul 12 3847
Self-Humidifying Polymer Electrolyte Membranes for Fuel Cells
Watanabe, T., see Tsuchiaki, Masakatsu 7 2378
Watanabe, T., see Tsuchiaki, Masakatsu 9 2965
Watanabe, Tadaharu; Imai, Hiroaki; Suzuki, Takashi 8 2654
Dissociative Mechanisms of Monosilane and Arsine on Copper(II) Oxide
Watanabe, Tohru, see Mizushima, Io 8 1978
Wauters, Cary N.; Winnick, Jack 9 L184
Recovery of Bromine from Waste Gas-Phase Hydrogen Bromide Streams Using an Electrolytic Membrane
Waytena, G. L.; Hoff, H. A.; Ma, D. I.; Isaacson, I. P.; Rebbert, M. L.; Marrian, Christie; Suehle, J. S. 7 2392
The Use of a Double Mask System to Prevent Ti Diffusion from a Ti/Pt/Au Ohmic Contact on Diamond
Weber, JÖrg, see Molassioti-Dohms, A. 8 2674
Weber, M.; Wang, J-T; Wasmus, S.; Savinell, Robert F. 7 L158
Formic Acid Oxidation in a Polymer Electrolyte Fuel Cell. A Real-Time Mass-Spectrometry Study
Weber, W. J., see Stevenson, J. W. 9 2722
Wei, Dawei, see Osseo-Asare, K. 2 749
Wei, Dawei; Osseo-Asare, K. 10 3192
Semiconductor Electrochemistry of Particulate Pyrite: Dissolution via Hole and Electron Pathways
Wei, Yan, see Jang, Guang-Way 8 2591
Weiß, R., see Hilpert, K. 11 3642
Weidner, John W., see Murthy, Mahesh 7 2319
Weissman, I., see Mengeritsky, E. 7 2110
Wen, S. J.; Richardson, Thomas J.; Ma, L.; Striebel, K. A.; Ross, P. N., Jr.; Cairns, E. J. 6 L136
FTIR Spectroscopy of Metal Oxide Insertion Electrodes: A New Diagnostic Tool for Analysis of Capacity Fading in Secondary Li/LiMn2O4 Cells
Wen, S. J., see Striebel, K. A. 6 1821
Wen, T.-C., see Lee, Y.-S. 4 1218
Wen, Ten-Chin, see Chang, Chia-Chin 5 1485
Wendt, Hartmut, see Rausch, S. 9 2852
Weng, Dacong; Wainright, J. S.; Landau, U.; Savinell, R. F. 4 1260
Electro-osmotic Drag Coefficient of Water and Methanol in Polymer Electrolytes at Elevated Temperatures
Weppner, W., see Neudecker, Bernd J. 7 2196
Werho, Dennis, see Chang, Li-Hsin 7 2353
Werner, Chr., see Brinkmann, Ralf Peter 6 1940
Wernet, Wolfgang, see Khan, Golam Faruque 10 3336
West, Alan C., see DeBecker, Benoit 2 486
West, Keld; Zachau-Christiansen, B.; Skaarup, S.; Saidi, Yazid M.; Barker, J.; Olsen, I. I.; Pynenburg, R.; Koksbang, R. 3 820
Comparison of LiV3O8 Cathode Materials Prepared by Different Methods
Whitby, Evan; Hoshino, Masakazu 10 3397
Particle Size Distribution in a Low Pressure SiH4:O2:He Chemical Vapor Deposition Reactor. Experimental and Numerical Results
White, R. E., see Coleman, Darryl H. 6 1871
White, R. E., see Ramasubramanian, M. 7 2164
White, Ralph E., see Zheng, G. 2 435
White, Ralph E., see Zheng, G. 3 834
White, Ralph E., see Pakalapati, S. N. R. 5 1636
White, Ralph E., see Coleman, D. H. 6 1781
White, Ralph E., see Kalu, E. E. 10 3094
White, Ralph E., see De Vidts, Pauline 10 3223
Whiteside, George M., see Xia, Younan 3 1070
Whittingham, M. Stanley, see Chirayil, Thomas A. 9 L193
WidelÖv, A.; Markovic, N. M.; Ross, P. N., Jr. 11 3504
Electrochemical and Surface Spectroscopic Studies of Thin Films of Bismuth Ruthenium Oxide (Bi2Ru2O7)
Williams, J. R., see Casady, Jeffrey B. 5 1750
Williams, K. R., see Burstein, G. T. 7 L139
Williamson, D. L., see Qi, Bin 2 517
Willstedt, Anna-Karin, see Rensmo, Hakan 10 3173
Wilson, I. H., see Zhang, S. L. 4 1394
Wilson, JIB, see Rigden, J. S. 3 1033
Wilson, Mahlon S., see Ren, Xiaoming 1 L12
Wilson, Mahlon S., see Springer, Thomas E. 2 587
Winand, R., see Valova, E. 9 2804
Winand, R., see Armyanov, S. 11 3692
Winans, Randall E., see Sandi, Giselle 5 L95
Winnick, Jack, see Peterson, David 3 L55
Winnick, Jack, see Wauters, Cary N. 9 L184
Winnick, Jack, see Gray, Gary E. 7 2262
Winnick, Jack, see Gray, Gary E. 12 3820
Witham, C., see Ratnakumar, B. V. 8 2578
Witham, Charles; Ratnakumar, B. V.; Bowman, R. C., Jr.; Hightower, A.; Fultz, B. 9 L205
Electrochemical Evaluation of LaNi5-xGex Metal Hydride Alloys
Wittberg, Thomas N., see Quinlan, Kenneth P. 2 524
Wojcik, Paul T., see Jansen, Andrew N. 12 4066
Wolf, Rene; Helbig, R. 3 1037
Reactive Ion Etching of 6H-SiC in SF6/O2 and CF4/O2 with N2 Additive for Device Fabrication
Wolfe, J. C., see Zagozdzon-Wosik, W. 9 2981
Wolffenbuttel, R. F., see Poenar, Daniel P. 3 968
Wolkiewicz, A., see Kulesza, Pawel J. 1 L10
Wong, S. P., see Zhang, S. L. 4 1394
Woo, S. I., see Lee, C. S. 3 1099
Wood, G. C.; Skeldon, P.; Thompson, G. E.; Shimizu, K. 1 74
A Model for the Incorporation of Electrolyte Species into Anodic Alumina
Wood, G. C., see Habazaki, H. 8 2485
Worrell, Wayne L., see Swider, Karen E. 11 3706
Wu, J. C., see Deng, C. 8 2678
Wu, JunJun, see Chyan, Oliver M. R. 10 L235
Wu, Tze-Sien; Yang, Chien-Hsin 12 4019
Electrochemical Polymerization of Aniline and Toluidine on RuO2-Coated Titanium Electrodes
Wu, X. D., see Zheng, J. P. 3 1068
Wu, Xiaolin; Hebert, Kurt R. 1 83
Development of Surface Impurity Segregation during Dissolution of Aluminum
Wu, Z. Y.; Hall, S.; Keen, J. M. 9 2972
Electrical Properties of Thermally Oxidized Porous Silicon
Wurth, J. P., see Sasaki, K. 2 530
Wybourne, M. N., see Deng, C. 8 2678
Wyke, David R., see Guldi, Richard L. 2 628
Wypych, Fernando; Gomes, Maria A. B.; Denicoló, Ireno; Adad, Luciana B. 8 2522
Electrochemical Intercalation of Hydrated Hexilaminium Cations into the Layered Compound 2H-NbS2
Xia, Yongyao; Yoshio, Masaki 3 825
An Investigation of Lithium Ion Insertion into Spinel Structure Li-Mn-O Compounds
Xia, Younan; Kim, Enoch; Whitesides, George M. 3 1070
Microcontact Printing of Alkanethiols on Silver and Its Application in Microfabrication
Xia, Zongju, see Zhao, Wei 7 2346
Xie, K., see Flemish, Joseph R. 8 2620
Xin, Huoping, see Xu, W. 3 1133
Xing, W.; Xue, J. S.; Dahn, J. R. 10 3046
Optimizing Pyrolysis of Sugar Carbons for Use as Anode Materials in Lithium-Ion Batteries
Xing, Weibing; Xue, J. S.; Zheng, Tao; Gibaud, A.; Dahn, J. R. 11 3482
Correlation Between Lithium Intercalation Capacity and Microstructure in Hard Carbons
Xu, Chao-Nan; Tamaki, Jun; Miura, Norio; Yamazoe, Noboru 7 L148
Nature of Sensitivity Promotion in Pd-Loaded SnO2 Gas Sensor
Xu, D.-X., see Landheer, D. 5 1681
Xu, DaXue, see Zhang, Libing 4 1390
Xu, Hualwei, see Guo, Yongland 4 1157
Xu, J.; Farrington, Gregory C. 2 L44
A Novel Electrochemical Method for Measuring Salt Diffusion Coefficients and Ion Transference Numbers
Xu, Jishou, see DeClements, Roger 7 L150
Xu, Kang; Day, Natlie D.; Angell, C. Austen 9 L209
Inorganic Electrolyte Solutions and Gels for Rechargeable Lithium Batteries
Xu, Kang; Zhang, Shengshui; Angell, C. A. 11 3548
Room Temperature Inorganic "Quasi-Molten Salts" as Alkali-Metal Electrolytes
Xu, Qingzhong, see Quickenden, T. I. 4 1248
Xu, W.; Zheng, Lirong; Xin, Huoping; Lin, Chenglu; Okuyama, M. 3 1133
Hydrothermal BaTiO3 Thin Films on Ti-Covered Silicon: Characterization and Growth Mechanism
Xue, J. S., see Xing, W. 10 3046
Xue, J. S., see Xing, Weibing 11 3482
Xue, Rongjian, see Wang, Zhaoxiang 5 1510
Yabumoto, Norikuni, see Saito, Kazuyuki 12 4101
Yaeger, E. B., see Kanamura, Kiyoshi 9 2765
Yahikozawa, Kiyochika, see Ito, Minoru 1 32
Yamada, Keizo; Kitamura, Fusao; Ohsaka, Takeo; Tokuda, Koichi 12 4006
Response Time of Thin-Layer Electrolytic Cells to Potential-Step Signals
Yamada, Kohta, see Lee, Choong-Gon 7 2315
Yamada, M., see Takeishi, Shunsaku 1 381
Yamada, Naoki; Ventzek, Peter L. G.; Sakai, Y.; Tagashira, H.; Kitamori, K. 4 1375
Simulations of a Feedback Control Scheme for an Inductively Coupled Plasma Source for Etching Applications
Yamaguchi, Atsuko; Ogawa, Taro; Tachibana, Hiroaki; Oizumi, Hiroaki; Soga, Takashi; Matsumoto, Mutsuyoshi; Matsuzaka, Takashi; Takeda, Eiji 2 857
Self-Developing Characteristics of Si Containing Polymers and Their Application to X-Ray Lithography
Yamaguchi, Koichi; Tada, Satoshi 8 2616
Fabrication of GaAs Microtips for Scanning Tunneling Microscopy by Wet Etching
Yamaguchi, Yasuo, see Kanno, Ryoji 8 2438
Yamaha, Takahisa; Naito, Masaru; Hotta, Tadahiko 3 1043
Roles of Cap-Metal on Via Electromigration Resistance in Aluminum-Based Interconnections
Yamaha, Takahisa; Naito, Masaru 10 3297
Electromigration Characteristics of Sputtered TiN/Ti/AlSiCu/TiON/Ti Interconnects with Aluminum Reflow
Yamamoto, Hajime, see Matsukiyo, Hidetsugu 5 1696
Yamamoto, Kenichi; Shimono, T.; Okada, T.; Kawazawa, Y.; Tatsuno, T. 12 4119
New Method of Purification of HF Chemicals for Very Large Scale Integration Manufacturing
Yamanaka, Ichiro, see Otsuka, Kiyoshi 11 3491
Yamanaka, M., see Kashiwagi, Y. 12 4079
Yamasaki, Sumio; Terayama, Katunori; Yano, Jun 9 L212
Poly(p-phenylene terephthalamide) Film Immobilizing Oligomer Species as a Colored Matrix for Three-Color Electrochromic Displays
Yamase, Toshihiro; Kobayashi, Takeshi; Kettle, Sidney F. A. 5 1678
Intramolecular Energy Transfer and Mn4+ Luminescence in Polyoxometallomanganate Lattices
Yamashita, Kimihiro; Umegaki, Takao; Tanaka, Masashi; Kakuta, Toshiya; Nojiri, Takeshi 7 2180
Microstructural Effects on Conduction Properties of Na5YSi4O12-Type Glass-Ceramic Na+-Fast Ionic Conductors
Yamashita, Noboru, see Hara, Tohru 11 L264
Yamataka, Katsuhiro, see Inoue, Hiroshi 8 2527
Yamauchi, Eiko, see Fujiwara, Yutaka 8 2584
Yamaura, Hiroyuki; Tamaki, Jun; Moriya, Koji; Miura, Norio; Yamazoe, Noboru 2 L38
Selective CO Detection by Using Indium Oxide-Based Semiconductor Gas Sensor
Yamawaki, Masataka, see Itsumi, Manabu 7 2357
Yamazaki, Tatsuya, see Aoyama, Takayuki 7 2280
Yamazoe, N., see Hyodo, T. 11 L268
Yamazoe, Noboru, see Miura, Norio 2 L33
Yamazoe, Noboru, see Yamaura, Hiroyuki 2 L36
Yamazoe, Noboru, see Xu, Chao-Nan 7 L148
Yamazoe, Noboru, see Lu, Geyu 7 L154
Yamazoe, Noboru, see Miura, Norio 10 L241
Yamazoe, Noboru, see Yan, Y. 2 609
Yan, H.; Downes, J.; Boden, P. J.; Harris, S. J. 5 1677
A Model for Nanolaminated Growth Patterns in Zn and Zn-Co Electrodeposits
Yan, Y.; Miura, N.; Yamazoe, Noboru 2 609
Construction and Working Mechanism of Sulfur Dioxide Sensor Utilizing Stabilized Zirconia and Metal Sulfate
Yanagida, Hiroaki, see Kunishima, Yoshiko Niki 4 1334
Yang, C. H.; Wang, Yung-Yun; Wan, C. C.; Chen, C. J. 11 3521
A Search for the Mechanism of Direct Copper Plating via Bridging Ligands
Yang, Chien Kuo; Lei, Tan Fu; Lee, Chung Len 10 3302
Characteristics of Top-Gate Polysilicon Thin-Film Transistors Fabricated on Fluorine-Implanted and Crystallized Amorphous Silicon Films
Yang, Chien-Hsin, see Wu, Tze-Sien 12 4019
Yang, H. W.; Wang, Y. Y.; Wan, C. C. 2 429
Studies of Electrochemical Properties of Ti0.35Zr0.65NixV2-x-yMny Alloys with C14 Laves Phase for Nickel/Metal Hydride Batteries
Yang, S.-H.; Snell, C. M.; Morris, S. J.; Tian, S.; Parab, K.; Obradovich, B.; Morris, M.; Tasch, A. F. 11 3784
A Monte Carlo Binary Collision Model for BF2 Implants into (100) Single-Crystal Silicon
Yang, W. P., see Maurice, Vincent 4 1182

Author	Issue	Page
Yang, X. Q., *see* McBreen, J.	10	3198
Yang, X. Q., *see* Lee, H. S.	12	3825
Yang, Yanzhao, *see* Guo, Yongland	4	1157
Yano, Jun, *see* Yamasaki, Sumio	9	L212
Yasuda, Hedlo, *see* Amine, Khalil	5	1607
Yasuda, Isamu; Hishinuma, Masakazu Electrochemical Properties of Doped Lanthanum Chromites as Interconnectors for Solid Oxide Fuel Cells	5	1583
Yasumoto, Eiichi, *see* Taniguchi, Noboru	6	1886
Yasuoka, Akihiko, *see* Kobayashi, Kiyoteru	10	3377
Yasutake, Masatoshi, *see* Fujino, Naohiko	12	4125
Ye, J. H.; Kaji, K.; Itaya, Kingo Atomic-Scale Elucidation of the Anisotropic Etching of (110) n-Si in Aqueous NH4F: Studies by In Situ Scanning Tunneling Microscopy	12	4012
Ye, Siyu; Vijh, Ashok K.; Dao, Le H. A New Fuel Cell Electrocatalyst Based on Highly Porous Carbonized Polyacrylonitrile Foam with Very Low Platinum Loading	1	L7
Yeager, E. B., *see* Hsiao, M. W.	3	759
Yeh, C.-F., *see* Liu, C.-W.	2	716
Yeh, Ching-Fa; Lin, Shyue-Shyh; Lur, Water Stress in Liquid-Phase Deposited Oxide Films	8	2658
Yeh, J.-M., *see* Jang, Guang-Way	8	2591
Yeh, Wen-Kuan; Chan, Kuang-Yang; Chang, T. C.; Chen, Mao-Chieh; Lin, Mou-Shiung Thermal Stability of W-Contacted Junction Diodes	6	2053
Yelon, Arthur, *see* Ivanov, Dentcho V.	9	2835
Yen, S. K.; Tsai, Y. C. Determination of the Critical Temperature for Forming a Chromium-Rich Oxide on AISI 430 Stainless Steel and Its Corrosion Resistance	8	2493
Yen, S. K.; Tsai, Y. C. Critical Hydrogen Concentration for the Brittle Fracture of AISI 430 Stainless Steel	9	2736
Yi, K.-W.; Kakimoto, Koichi; Niu, Z. G.; Eguchi, M.; Noguchi, H.; Nakamura, S.; Mukai, K. Asymmetric Distribution of Oxygen Concentration in the Si Melt of a Czochralski System	2	722
Yieh, E., *see* Iyer, R.	10	3366
Yin, K.-M., *see* Ramasubramanian, M.	7	2164
Yip, Pearl W., *see* Quinlan, Kenneth P.	2	524
Yohannes, Teketel; Inganäs, O. Photoelectrochemical Energy Conversion at the Conjugated Polymer/Redox Polymer Electrolyte Interface	7	2310
Yokokawa, Harumi, *see* Horita, Teruhisa	4	1161
Yokokawa, Harumi, *see* Nishiyama, Haruo	7	2332
Yokoyama, M., *see* Su, S. H.	12	4118
Yoneda, Kenji, *see* Kamata, Masahiro	6	1866
Yoneda, Tomoaki, *see* Hara, Tohru	8	L166
Yonenaga, Ichiro Upper Yield Stress of Si Crystals at High Temperatures	8	L176
Yoneyama, Hiroshi, *see* Nishizawa, Matsuhiko	11	3462
Yoo, Do Joon; Park, Soon Ja Electrolysis of Water in CuO/ZnO Heterocontact Humidity Sensor	4	L89
Yoo, H. J., *see* Lee, C. S.	3	1099
Yoo, Han-Ill, *see* Kim, Chan-Soo	9	2863
Yoo, Jae Soo, *see* Cho, Sung Hee	10	L231
Yoo, Jae Soo, *see* Jeon, Byung-Soo	12	3923
Yoo, Jae-Hyung, *see* Kim, Kwang-Wook	9	2717
Yoon, Young S., *see* Hamakawa, Satoshi	4	1264
York, Andrew P. E.; Hamakawa, Satoshi;Hayakawa, Takashi; Tsunoda, Tatsuo; Takehira, Katsuomi Methacrolein Production from iso-Butane Using a Au/Yttria-Stabilized Zirconia/Ag Electrochemical Reaction Cell	11	L249
York, Andrew P. E., *see* Hamakawa, Satoshi	4	1264
Yoshida, Hiroyuki, *see* Inaba, Minoru	8	2572
Yoshikawa, Jun, *see* Shimbo, Masaru	7	2371
Yoshimaru, Masaki; Wakamatu, Hidetoshi Microcrystal Growth on Borophosphosilicate Glass Film during High-Temperature Annealing	2	686
Yoshimaru, Masaki; Matsuhashi, Hideaki Moisture Resistance in Annealed Borophosphosilicate Glass Films for Very Large Scale Integrated Circuit Applications	9	3032
Yoshimi, Toshihiro, *see* Shabani, Mohammad B.	6	2025
Yoshino, Hideo, *see* Itsumi, Manabu	10	3359
Yoshino, Shiroh, *see* Nishimura, Masashi	10	L243
Yoshio, Masaki, *see* Xia, Yongyao	3	825
Yoshioka, Katsuaki, *see* Futsuhara, Masanobu	11	3743
Youn, Chang-Joo, *see* Kim, Kaunjoo	10	3372
Youn, Kang Shik, *see* Byun, Jeong Soo	3	L56
Young, K., *see* George, Mark	10	3257
Yu, Xiling, *see* Wang, Chao	12	L283
Yuan, Shi; Pal, Uday Analytic Solution for Charge Transport and Chemical-Potential Variation in Single-Layer and Multilayer Devices of Different Mixed-Conducting Oxides	10	3214
Yun, Seok-Min, *see* Kim, Jung-Hyung	9	2990
Zaban, A., *see* Mengeritsky, E.	7	2110
Zachau-Christiansen, B., *see* West, Keld	3	820
Zaghib, K., *see* Tatsumi, K.	6	1923
Zagozdzon-Wosik, W.; Korablev, K.; Rusakova, I.; Simons, D.; Shi, J. H.; Chi, P.; Wolfe, J. C. Formation of Shallow Junctions during Rapid Thermal Processing from Electron-Beam Deposited Boron Sources	9	2981
Zahurak, S. M., *see* McCormack, M.	2	L31
Zahurak, S. M., *see* Law, Henry H.	8	2596
Zakroczymski, T., *see* Flis, J.	8	2458
Zama, K., *see* Nakabayashi, S.	7	2258
Zamponi, S., *see* Kulesza, Pawel J.	1	L10
Zavada, J. M., *see* Lee, J. W.	8	L169
Zavalij, Peter Y., *see* Chirayil, Thomas A.	9	L193
Zavracky, Paul M., *see* Vu, Q.-B.	4	1372
Zawodzinski, Thomas A., *see* Springer, Thomas E.	2	587
Zawodzinski, Thomas A., Jr., *see* Dai, Hongli	6	L107
Zen, M., *see* Bellutti, Pierluigi	9	2953
Zenia, F., *see* Cachet, H.	2	442
Zhang, Kevin X.; Osburn, Carlton M.; Hames, Greg; Parker, Chris; Bayoumi, Amr A 0.25 um MOSFET Technology Using In Situ Rapid Thermal Gate Dielectrics	2	744
Zhang, Libing; Coffer, Jeffery L.; Rho, Young Gyu; Pinizzotto, Russell F. Fabrication of a Porous Silicon Diode Possessing Distinct Red and Orange Electroluminescent Regions	2	L42
Zhang, Libing; Coffer, Jeffery L.; Xu, DaXue; Pinizzotto, Russell F. Surface Modification of Porous Silicon by Aluminum Isopropoxide and Its Impact on Electroluminescence	4	1390
Zhang, Meijie; Dahn, Jeffrey R. Electrochemical Lithium Intercalation in VO2(B) in Aqueous Electrolytes	9	2730
Zhang, S. L.; Chen, Y.; Jia, L.; Li, J. J.; Huang, F. M.; Zhu, T.; Wang, X.; Liu, Z. F.; Cai, S. M.; Wong, S. P.; Wilson, I. H. Multiple Source Quantum Well Model of Porous Silicon Light Emission	4	1384
Zhang, Shengshui S.; Angell, C. Austen A Novel Electrolyte Solvent for Rechargeable Lithium and Lithium-Ion Batteries	12	4047
Zhang, Shengshui, *see* Xu, Kang	11	3648
Zhang, W., *see* Mayolet, A.	1	330
Zhang, Wenlin; Srinivasan, Supramaniam; Ploehn, Harry J. Analysis of Transient Hydrogen Uptake by Metal Alloy Particles	12	4039
Zhang, X. G. Galvanic Corrosion of Zinc and Its Alloys	4	1472
Zhao, Qiang; Lu, Hsueh Yi; Hess, Dennis W. In Situ Infrared Studies of Polyvinyl Chloride Films Exposed to H2/O2/Ar Downstream Microwave Plasmas	9	2896
Zhao, Wei; Mi, Yanming; Su, Mianzeng; Song, Zengfu; Xia, Zongju Response Time of Photostimulated Luminescence of BaFX:Eu2+ and BaFCl:Pr3+ under Near-Infrared Light Stimulation	7	2348
Zheng, G.; Popov, B. N.; White, Ralph E. Application of Porous Electrode Theory on Metal Hydride Electrodes in Alkaline Solution	2	435
Zheng, G.; Popov, B. N.; White, Ralph E. Determination of Transport and Electrochemical Kinetic Parameters of Bare and Copper Coated LaNi4.27Sn0.24 Electrodes in Alkaline Solution	3	834
Zheng, G., *see* Coleman, Darryl H.	6	1871
Zheng, J. P.; Jow, T. R.; Jia, Q. X.; Wu, X. D. Proton Insertion into Ruthenium Oxide Film Prepared by Pulsed Laser Deposition	3	1068
Zheng, Lirong, *see* Xu, W.	3	1133
Zheng, Tao; McKinnon, W. R.; Dahn, Jeffrey R. Hysteresis during Lithium Insertion in Hydrogen-Containing Carbons	7	2137
Zheng, Tao, *see* Xing, Weibing	11	3482
Zhou, Bo; Ramirez, W. Fred Kinetics and Modeling of Wet Etching of Aluminum Oxide by Warm Phosphoric Acid	2	619
Zhou, Zuyao, *see* He, Zhiping	8	2636
Zhu, Dexu, *see* Li, Genxi	7	L141
Zhu, Junjie, *see* Li, Genxi	7	L141
Zhu, T., *see* Zhang, S. L.	4	1384
Zolfaghari, Alireza, *see* Jerkiewicz, Gregory	4	1240
Zolper, J. C., *see* Vartuli, C. B.	11	3681
Zorba, T., *see* Siapkas, D. I.	9	3019
Zotseev, A. V., *see* Obraztsov, A. N.	3	1109
Zou, G., *see* Li, Li	1	233
Zou, Shichang, *see* He, Zhiping	8	2636
Zuhr, R. A., *see* Wang, Bo	10	3203
Zukal, A., *see* Kavan, Ladislav	2	394

			Issue	Page
		— A —		
cts of RF Power on Plasma Phase Reactions and Film Structure in Deposition of	**a-C:H** by Styrene/Argon Discharge	Effe	4	1451
Nonphotosensitive, Vertically Redundant Two-Channel	**a-Si:H** Thin Film Transistor		4	1469
Horizontally Redundant, Split-Gate	**a-Si:H** Thin Film Transistors		8	2680
. III. Voltammetric Study, at Microelectrode, of C60n- (n = 0 to 4) Solvation in the	**Absence** of Supporting Electrolyte	Electroreduction of C60 in Aprotic Solve	2	550
Studies of the Formation of Cerium-Rich Protective Films Using X-Ray	**Absorption** Near-Edge Spectroscopy and Rotating-Disk-Electrode Methods		1	147
Iron Oxide Passive Films	In Situ X-Ray **Absorption** Near-Edge Spectroscopic Study of the Cathodic Reduction of Artificial		2	574
Amorphous Al-Fe-Ce Alloys	An X-Ray **Absorption** Near-Edge Spectroscopic Study of the Structure of Passive Films on		2	614
y Electrodes	In Situ X-Ray **Absorption** Near-Edge Structure Evidence for Quadrivalent Nickel in Nickel Batter		5	1613
ydrogen Electrocatalysis by Carbon Supported Pt and Pt Alloys. An In Situ X-Ray	**Absorption** Study	H	7	2285
l-PEO Complexes	X-Ray **Absorption** Studies of ZnCl2-PEO and Mixed Salt ZnCl2/KCl-PEO and ZnCl2/CsC		10	3198
Mechanism of	**AC** Electrical Transport of Carriers in Freshly Formed and Aged Porous Silicon		12	3943
Characterization of Polymer Electrolyte Fuel Cells Using	**AC** Impedance Spectroscopy		2	587
Proton Conductivity of Nafion 117 as Measured by a Four-Electrode	**AC** Impedance Method		4	1254
ueous Phase	**AC** Impedance Analysis for Li+ Insertion of a Pt/Lambda-MnO2 Electrode in an Aq		8	2610
n Evolution Reaction on RuO2 and IrO2 Oxide Electrodes in H2SO4 Solution: An	**AC** Impedance Study	Kinetics of the Hydroge	11	3576
Dislocation Formation Model of Trench-Induced Dislocations in Dynamic Random	**Access** Memories	A	1	210
Electrochromic Behavior of a Lambda-MnO2 Electrode	**Accompanying** Li+ -Insertion in an Aqueous Phase		3	905
Oxide Growth Enhancement Related to Annealing Induced Arsenic	**Accumulation** in the Si/SiO2 Interface Region		1	L15
Feasibility Studies of a Fuel Cell for Cogeneration of Homogeneously Catalyzed	**Acetaldehyde** and Electricity from Ethanol		10	3058
ductance of Solutions of Lithium tris(Trifluoromethanesulfonyl) Methide in Water,	**Acetonitrile**, Propylene Carbonate, N,N-Dimethylformamide, and Nitromethane at		1	154
omium Oxide Thin Films Prepared by Chemical Vapor Deposition from Chromium	**Acetylacetonate** and Chromium Hexacarbonyl	Chr	6	1955
Electrochemical Formation of Polyaniline in Selenic	**Acid**		10	3079
Kinetics and Modeling of Wet Etching of Aluminum Oxide by Warm Phosphoric	**Acid**		2	619
Investigation on Copper Corrosion in Thin Films of Sulfuric	**Acid**		1	139
tiometric Sensor for the Detection of Trace Metallic Contaminants in Hydrofluoric	**Acid**	A New Poten	10	L235
icle Size on the Oxygen Reduction Reaction on 2% Pt-1% H2WO4 in Phosphoric	**Acid**	Effect of Platinum Part	6	1814
ctrochromism of Electrochemically Codeposited Composites of Phosphomolybdic	**Acid** and Tungsten Trioxide	Ele	9	2784
chnique Topographic Changes of Polycrystalline Ag and Cu Electrodes in	**Acid** Aqueous Solutions Resulting from a Prolonged Application of the Potential R		7	2294
Fabrication of Anatase Thin Films from Peroxo-Polytitanic	**Acid** by Spray Pyrolysis		9	L191
Thermal Stability of Proton Conducting	**Acid** Doped Polybenzimidazole in Simulated Fuel Cell Environments		4	1225
Perfluoro-ethylene-1,2-bis-phosphonic	**Acid** Fuel Cell Electrolyte		9	2765
Five Percent Platinum-Tungsten Oxide-Based Electrocatalysts for Phosphoric	**Acid** Fuel Cell Cathodes		12	3842
olyethylene-Tetrafluoroethylene-Copolymer-Based Membrane Containing Sulfonic	**Acid** Group Prepared by RIGP	Proton Transport Through P	9	2795
Anodic Oxidation of Ethylenediaminetetraacetic	**Acid** on Platinum Electrode in Alkaline Medium		5	1636
y Study Formic	**Acid** Oxidation in a Polymer Electrolyte Fuel Cell. A Real-Time Mass-Spectrometr		7	L158
Barrier Height Lowering and Instability of Gate Oxides Due to Dilute Hydrofluoric	**Acid** Pretreatment		3	973
Studies of the Electrochemical Double Layer at (100) Au in Perchloric	**Acid** Solutions by In Situ Infrared Spectroscopy		8	L171
Photoelectrochemical Etching of p-InP in Nitric	**Acid** Solutions		9	L200
High-Rate Copper Dissolution in Hydrochloric	**Acid** Solution		3	961
p- and n-Type Silicon Electrochemical Properties in Dilute Hydrofluoric	**Acid** Solutions		11	3532
An Experimental Study of Iron Corrosion in Sulfuric	**Acid** Solution Containing Inhibitors by Noise Measurement		11	3597
Electrosynthesis of p-Hydroxybenzaldehyde from p-Hydroxymandelic	**Acid** Using a Platinum Electrode		10	3166
The Etching of InP by	**Acidic** Iodine Solutions. A Kinetic and Electrochemical Study		4	1319
tallite Size Effects of Carbon-Supported Platinum on Oxygen Reduction in Liquid	**Acids**	Crys	1	18
Electrodeposition of Fe-C Alloys from Baths Containing Dicarboxylic	**Acids** with a Linear Alkyl Chain		8	2584
Float Charging of Valve-Regulated Lead-Acid Batteries: A Balancing	**Act** Between Secondary Reactions		3	790
Low-Background Instrumental Neutron	**Activation** Analysis of Silicon Semiconductor Materials		1	339
Losses in Nanocrystalline/Nanoporous TiO2 Electrodes Due to Electrochemically	**Active** Species in the Electrolyte	Photocurrent	10	3173
Solution Catalytic	**Activities** of Rare-Earth Manganites for Cathodic Reduction of Oxygen in Alkaline		11	L266
g of TiO2 Particles and the Effect of Charge Carrier Density on the Photocatalytic	**Activity** of Microporous Semiconductor Electrode Films	Photoelectrochemi	11	3712
Effects of Small Amounts of Silver	**Added** to NiGe Ohmic Contacts to n-Type GaAs		5	1705
Morphology Evolution of Zinc-Iron Binary Alloys Electrodeposited with Copper	**Additive**		4	L75
Reactive Ion Etching of 6H-SiC in SF6/O2 and CF4/O2 with N2	**Additive** for Device Fabrication		3	1037
The Effect of Gas-Phase	**Additives** C2H4, C2H6, and C2H2 on SiH4/O2 Chemical Vapor deposition		4	1365
The Effect of Blocking	**Additives** on the Electrodeposition of Cadmium		9	2759
Polycrystalline Tin Oxide Thin Films. Surface Analysis and Electroplated Copper	**Adhesion**	Electrochemically Reduced	8	2648
Nanocrystalline TiO2 (Anatase) Electrodes: Surface Morphology,	**Adsorption**, and Electrochemical Properties		2	394
Comparison of Hydrogen Electroadsorption from the Electrolyte with Hydrogen	**Adsorption** from the Gas Phase		4	1240
Films	**Adsorption** of Chlorine on TiSi2: Application to Etching and Deposition of Silicide		1	298
Spectroscopy Effects of Plasma Excitation and Chemical Pretreatment on	**Adsorption** of Tungsten Hexafluoride on Silicon and Silicon Dioxide Studied by X-		11	3670
Capacitive Deionization of NaCl and NaNO3 Solutions with Carbon	**Aerogel** Electrodes		1	189
High Surface Area V2O5	**Aerogel** Intercalation Electrodes		7	2099
Predictions from the Macrohomogeneous Model of an	**Aerospace** Ni-Cd Battery		3	803
Confinement Phenomena in Buried Oxides of SIMOX Structures as	**Affected** by Processing		2	695
the Potential Reversal Technique Topographic Changes of Polycrystalline	**Ag** and Cu Electrodes in Acid Aqueous Solutions Resulting from a Prolonged Appl		7	2294
perature Effects on Oxidation of Ethylamine, Alanine, and Ammonia at Anodized	**Ag-Pb** Eutectic Alloy Electrodes	Electrocatalysis of Anodic Oxygen-Transfe	8	2543
Mechanism of AC Electrical Transport of Carriers in Freshly Formed and	**Aged** Porous Silicon		12	3943
Modeling of Plated Through-Hole Processes. II. Effect of Leveling	**Agents** on Current Distribution		10	3144
Photoluminescence of Porous Silicon in	**Air**		11	3704
Morphology and Structure of Oxide Films Formed on MgAl Alloys by Exposure to	**Air** and Water		8	2564
CdSe:In2O3 Coatings with n-Type Conductivity Produced by	**Air** Annealing of CdSe-In Thin Films		9	2892
etermination of the Critical Temperature for Forming a Chromium-Rich Oxide on	**AISI** 430 Stainless Steel and Its Corrosion Resistance	D	8	2493
Critical Hydrogen Concentration for the Brittle Fracture of	**AISI** 430 Stainless Steel		9	2736
itted Electrons on Inductively Coupled Plasma Etching of a Si Wafer Through an	**Al** Mask	Effects of Transm	11	3752
The Effect of Preheating Treatment on Anodic Al2O3 Formed on Sputtered	**Al** Thin Films		3	984
Electromigration Drift Velocity in	**Al-Alloy** and Cu-Alloy Lines		3	1001
Near-Edge Spectroscopic Sturly of the Structure of Passive Films on Amorphous	**Al-Fe-Ce** Alloys	An X-Ray Absorption	2	614
	Al-Ge Reflow Sputtering for Submicron Contact Hole Filling		1	228
Electromigration Characteristics for	**Al-Ge-Cu**		3	1088
The Composition of the Alloy/Film Interface during Anodic Oxidation of	**Al-W** Alloys		8	2465
A Kinetic Study of Lithium Transport in a New Li Intercalation Material	**Al0.11V2O5.15** Synthesized via a Sol-Gel Process		7	2083
The Effect of Preheating Treatment on Anodic	**Al2O3** Formed on Sputtered Al Thin Films		3	984
dic Oxygen-Transfer Reactions. Temperature Effects on Oxidation of Ethylamine,	**Alanine**, and Ammonia at Anodized Ag-Pb Eutectic Alloy Electrodes	Electr	8	2543
Using the Composite Film Derived from Poly(o-phenylenediamine) and Poly(vinyl	**alcohol)**	A New Humidity Sensor	9	2925
Observation of Electrode Poisoning during the Electro-oxidation of Aromatic	**Alcohols** on (111) Au		7	2088
Ar Plasma-Induced Damage in	**AlGaAs**		9	L219
C12-Based Dry Etching of GaAs,	**AlGaAs**, and GaP		8	2010
Effects of Annealing on Damage in	**AlGaAs** Induced by Electron Cyclotron Resonance SF6/CHF3 Plasma Etching		3	1151
High Ion Density Plasma Etching of InGaP, AlInP, and	**AlGaP** in CH4/H2/Ar		3	1093
Linear	**Algebra** Used to Determine Independent Half-Cell Equations		8	1781
apor Deposition Cause of	**Aligned-Orientation** Growth of Titanium Silicide in Plasma Enhanced Chemical V		11	3778
High Ion Density Plasma Etching of InGaP,	**AlInP**, and AlGaP in CH4/H2/Ar		3	1093
of Spike Peaks Observed under Pressurized Oxidant Gas Atmospheres in Molten	**Alkali** Carbonates	A Kinetic Study	7	2315
Investigation of	**Alkali** Carbonate Transport Toward the Catalyst in Internal Reforming MCFCs		10	3186
Room Temperature Inorganic "Quasi-Molten Salts" as	**Alkali-Metal** Electrolytes		11	3548
In Situ Quartz Crystal Microbalance Studies of Nickel Hydrous Oxide Films in	**Alkaline** Electrolytes		1	37
talytic Properties of Co, Pt, and Pt-Co on Carbon for the Reduction of Oxygen in	**Alkaline** Fuel Cells	Electroca	7	2152
Anodic Oxidation of Ethylenediaminetetraacetic Acid on Platinum Electrode in	**Alkaline** Medium		5	1636
Improvements of the Rechargeable	**Alkaline** MnO2-Zn Cell		1	13
atalytic Activities of Rare-Earth Manganites for Cathodic Reduction of Oxygen in	**Alkaline** Solution	C	11	L266

		Issue	Page
Effect of Temperature on the Interaction of Silicon with Nonionic Surfactants in	**Alkaline** Solutions	1	277
Application of Porous Electrode Theory on Metal Hydride Electrodes in	**Alkaline** Solution	2	435
hiometry of Sintered Oxide Ca0.9La0.1MnO3-delta and Its Cathodic Properties in	**Alkaline** Solutions. Nonstoic	2	567
cal Kinetic Parameters of Bare and Copper Coated LaNi4.27Sn0.24 Electrodes in	**Alkaline** Solution. Determination of Transport and Electrochemi	3	834
in Graphite Hydrogen Evolution Reaction in	**Alkaline** Solution Catalytic Influence of Pt Supported on Graphite vs. Pt Inclusions	3	919
Oxygen Evolution on Co-Cu-Zn Ternary Spinel Oxide-Coated Electrodes in	**Alkaline** Solution. Integration of Statistical, Electrochemical, and Textural Approac	4	1218
Cementation of Copper on Aluminum in	**Alkaline** Solutions	4	1300
Kinetics of Oxygen Reduction at IrO2-Coated Titanium Electrode in	**Alkaline** Solution	5	1485
Surface Morphology of p-Type (100) Silicon Etched in Aqueous	**Alkaline** Solution	5	1744
ectroelectrochemical Studies on Dissolution and Passivation of Zinc Electrodes in	**Alkaline** Solutions. Sp	7	2125
troless Ni-Mo-P/SnO2/Ti Electrodes with Heat-Treatment for Oxygen Evolution in	**Alkaline** Solution. Characterization of the Elec	7	2158
tes of High-Phosphorus Electroless NiP and NiCuP Deposited from Nonammonia	**Alkaline** Solutions. Interface with Substra	9	2804
uctions of Hg(II), Ruthenium-Nitrosyl Complex, Chromate, and Nitrate in a Strong	**Alkaline** Solution. Electrochemical Red	12	3801
Oxidation of Zinc in	**Alkaline** Solutions Studied by Electrochemical Impedance Spectroscopy	12	3895
Electrodeposited Silver Arrays Fabricated Utilizing Self-Assembled	**Alkanethiolate** Monolayer Photoresist	10	3117
Microcontact Printing of	**Alkanethiols** on Silver and Its Application in Microfabrication	3	1070
deposition of Fe-C Alloys from Baths Containing Dicarboxylic Acids with a Linear	**Alkyl** Chain. Electro	8	2584
-(oxy-ethylene)]/Lithium Metal Interface. Comparison of Linear, Cross Linked, and	**Alkylated** Electrolyte Films. Study of the Poly[oxymethylene oligo	4	1292
Alpha-Oxo-Thioesters by Electro-oxidation of Diaryl Disulfides in the Presence of	**Alkynes**. A New Preparation of	12	4027
Polypyrrole Composite Electrodes in an	**All-Polymer** Battery System	3	936
te Electrode and Polyethylene Oxide/LiClO4 Polymer Electrolyte	**All-Solid-State** Electric Double-Layer Capacitor with Isotropic High-Density Graphi	12	3982
	All-Solid-State Measurements of Electrical Properties of Passive Films on Lithium	5	1690
The Hydrogen Storage Properties of New Mg2Ni	**Alloy**	9	L198
ydrogen Evolution Reaction at Various Zr-Based Laves-Phase Hydrogen-Storage	**Alloy** Electrodes. Kinetics of the H	8	2527
s on Oxidation of Ethylamine, Alanine, and Ammonia at Anodized Ag-Pb Eutectic	**Alloy** Electrodes. Electrocatalysis of Anodic Oxygen-Transfer Reactions. Te	8	2543
Grain Size-Internal Stress Relationship in Iron-Nickel	**Alloy** Electrodeposits	10	3327
Microstructure of Electrodeposited Cu-Ni Binary	**Alloy** Films	4	1078
Analysis of Transient Hydrogen Uptake by Metal	**Alloy** Particles	12	4039
Thin Films of Amorphous Germanium-Carbon	**Alloy** Prepared by Radio-Frequency Magnetron Sputtering	12	4087
The Composition of the	**Alloy/Film** Interface during Anodic Oxidation of Al-W Alloys	8	2465
Element Profiles and Interface with Substrates of Electroless Deposited Ternary	**Alloys**. Auger Electron Spectroscopy	11	3692
odeposition. II. A Mathematical Model Describing the Electrodeposition of Ni-Mo	**Alloys**. Induced C	3	893
ic Force Microscopy Observations of the Corrosion Behavior of Aluminum-Copper	**Alloys**. In Situ Atom	8	2471
Induced Codeposition. I. An Experimental Investigation of Ni-Mo	**Alloys**	3	885
Electrochemical Studies on LaNi5-xSnx Metal Hydride	**Alloys**	8	2578
e Spectroscopic Study of the Structure of Passive Films on Amorphous Al-Fe-Ce	**Alloys**. An X-Ray Absorption Near-Edg	2	614
Comparison of ICl and IBr Plasma Chemistries for Etching of InGaAlP	**Alloys**	11	3858
Electrochemical Determination of Solid-State Interdiffusion in Nickel-Platinum	**Alloys**	11	3882
Galvanic Corrosion of Zinc and Its	**Alloys**	4	1472
The Composition of the Alloy/Film Interface during Anodic Oxidation of Al-W	**Alloys**	8	2465
Electrochemical Evaluation of LaNi5-xGex Metal Hydride	**Alloys**	9	L206
Testing the Role of Metal Hydrolysis in the Anomalous Electrodeposition of Ni-Fe	**Alloys**	12	3918
Hydrogen Electrocatalysis by Carbon Supported Pt and Pt	**Alloys**. An In Situ X-Ray Absorption Study	7	2286
Study and Mathematical Model. Anomalous Codeposition of Fe-Ni	**Alloys** and Fe-Ni-SiO2 Composites under Potentiostatic Conditions. Experimental	7	2164
Methanol Electro-oxidation on Unsupported Pt-Ru	**Alloys** at Different Temperatures	5	1685
Morphology and Structure of Oxide Films Formed on MgAl	**Alloys** by Exposure to Air and Water	8	2564
Morphology Evolution of Zinc-Iron Binary	**Alloys** Electrodeposited with Copper Additive	4	L75
Electrodeposited Magnetic	**Alloys** for Surface Micromachining	10	3343
Temperature Molten Salt. Electrodeposition of Nickel-Aluminum	**Alloys** from the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room	1	130
Electrodeposition of Fe-C	**Alloys** from Baths Containing Dicarboxylic Acids with a Linear Alkyl Chain	8	2584
Electrodeposition of Cobalt-Aluminum	**Alloys** from Room Temperature Chloroaluminate Molten Salt	9	2747
Electrodeposition of Cobalt and Cobalt-Aluminum	**Alloys** from a Room Temperature Chloroaluminate Molten Salt	11	3448
ssivation Behavior of High-Purity Titanium and Selected A, B and B + A Titanium	**Alloys** in Aqueous Chloride Solutions. On the Repa	6	1847
Corrosion Behavior of Nickel-Iron	**Alloys** in Molten Carbonate	1	58
Systematic Theoretical Study of	**Alloys** of Platinum for Enhanced Methanol Fuel Cell Performance	6	2075
Studies of Electrochemical Properties of Ti0.35Zr0.65NixV2-x-yMny	**Alloys** with C14 Laves Phase for Nickel/Metal Hydride Batteries	2	429
Wet Chemical Etching of	**AlN** and InAlN in KOH Solutions	11	3681
Phase Transformation and Lattice Strain of	**alpha-AgI** Stabilized in Superionic Glass	2	487
Alkynes. A New Preparation of	**Alpha-Oxo-Thioesters** by Electro-oxidation of Diaryl Disulfides in the Presence of	12	4027
A Model for the Incorporation of Electrolyte Species into Anodic	**Alumina**	1	74
Lithiation of	**Alumina** in Molten LiK Carbonates	11	3458
Crystal Growth of gamma-Lithium	**Aluminate** in Molten LiK Carbonates	9	2776
aturally Occurring Metal-Binding Compounds on the Electrochemical Behavior of	**Aluminum**. The Effect of Various N	1	114
Development of Surface Impurity Segregation during Dissolution of	**Aluminum**	1	83
Cells with Sodium Hypochlorite or Chlorite and Anodes of Magnesium or	**Aluminum**	10	3133
olten Salt. Electrodeposition of Nickel-Aluminum Alloys from the	**Aluminum** Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature M	1	130
olten Salt. Electrochemical and Spectroscopic Studies of Ytterbium in the	**Aluminum** Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature M	1	170
its. Spectroscopic and Electrochemical Studies of Europium(III) Chloride in	**Aluminum** Chloride-1-Methyl-3-ethylimidazolium Chloride Room Temperature Molt	3	914
An Electrical Model for the Cathodically Charged	**Aluminum** Electrode	9	2827
Application of Nonequilibrium Thermodynamics to the Electrode Surfaces of	**Aluminum** Electrolysis Cells	11	3440
Characterization and Residue Elimination of Hot	**Aluminum** Etching in a Transformer Coupled Plasma Etcher	5	1783
Cementation of Copper on	**Aluminum** in Alkaline Solutions	4	1300
Atmospheric Corrosion of	**Aluminum** in the Presence of Ammonium Sulfate Particles	4	1175
Surface Modification of Porous Silicon by	**Aluminum** Isopropoxide and Its Impact on Electroluminescence	4	1390
Kinetics and Modeling of Wet Etching of	**Aluminum** Oxide by Warm Phosphoric Acid	2	619
romigration Characteristics of Sputtered TiN/Ti/AlSiCu/TiON/Ti Interconnects with	**Aluminum** Reflow. Elect	10	3297
Repassivation of Pits in	**Aluminum** Thin Films	6	1834
Roles of Cap-Metal on Via Electromigration Resistance in	**Aluminum-Based** Interconnections	3	1043
In Situ Atomic Force Microscopy Observations of the Corrosion Behavior of	**Aluminum-Copper** Alloys	8	2471
Wet Chemical Etch Solutions for	**AlxGa1-xP**	1	L1
Thermodynamic Properties of U, Np, Pu, and	**Am** in Molten LiCl-KCl Eutectic and Liquid Cadmium	8	2487
Unintentional Doping of Wafers Due to Organophosphates in the Clean Room	**Ambient**	9	2906
The Performance and Stability of	**Ambient** Temperature Molten Salts for Solar Cell Applications	10	3099
Thermal Oxynitridation of Silicon in N2O	**Ambients**	10	3372
FeCl3. Inhibition Effects of	**Amines** and Thiols on Iron Corrosion in Anhydrous Methanol Solution Containing	12	3866
cal Vapor Deposition of Titanium Nitride from tetrakis(Diethylamido) Titanium and	**Ammonia**. Atmospheric Pressure Chemi	2	738
ransfer Reactions. Temperature Effects on Oxidation of Ethylamine, Alanine, and	**Ammonia** at Anodized Ag-Pb Eutectic Alloy Electrodes. Electrocatalysis of	8	2543
Amperometric Gas-Phase Sensor for the Determination of	**Ammonia** in a Solid-State Cell Prepared by a Sol-Gel Process	6	L126
Thermal Nitridation of SiO2 Films in	**Ammonia**. Isotopic Tracing of Nitrogen and Oxygen in the Initial Stages	9	2938
idation. Thermal Nitridation of SiO2 Films in	**Ammonia**. Isotopic Tracing of Nitrogen and Oxygen in Further Stages and in Reox	9	2946
Thermal Nitridation of SiO2 Films in	**Ammonia**: The Role of Hydrogen	4	1426
The Electrochemical Study on the Dissolution Behavior of Gold in	**Ammoniacal** Solutions at Temperatures above 100 C	6	1875
ontaminants from Silicon Substrates Using Electrolysis-Ionized Water Containing	**Ammonium** Chloride. Removal of Metal and Organic C	5	1632
Silver Electrocrystallization on Vitreous Carbon from	**Ammonium** Hydroxide Solutions	5	1551
Atmospheric Corrosion of Aluminum in the Presence of	**Ammonium** Sulfate Particles	4	1175
Atmospheric Corrosion of Zinc in the Presence of	**Ammonium** Sulfate Particles	5	1539
	Amorphization of Thin Si Layers by Arsenic Ion Implantation	3	L87
Absorption Near-Edge Spectroscopic Study of the Structure of Passive Films on	**Amorphous** Al-Fe-Ce Alloys. An X-Ray	2	614
n. Leakage Current Mechanism of	**Amorphous** and Polycrystalline Ta2O5 Films Grown by Chemical Vapor Depositio	3	977
Particles. Single-Crystal Cu2O Formation on	**Amorphous** Carbon Electrode and Effect of Anions on the Crystal Habit of Cu2O	7	2105
puttering. Thin Films of	**Amorphous** Germanium-Carbon Alloy Prepared by Radio-Frequency Magnetron S	12	4087
Optomechanical Studies of Lithium Intercalation in	**Amorphous** Molybdenum Thin Films	9	2822

		Issue	Page
Synthesis of	**Amorphous** MoO2+delta and Its Electrode Performance in Lithium Batteries	7	L143
Rapid Thermal Annealing Behavior of	**Amorphous** SiC Layers Deposited by Electron Cyclotron Resonance Plasma	1	271
olysilicon Thin-Film Transistors Fabricated on Fluorine-Implanted and Crystallized	**Amorphous** Silicon Films Characteristics of Top-Gate P	10	3302
Electrochemical Characteristics of Crystalline and	**Amorphous** SnS2 in Lithium Cells	9	2647
Characterization of Proton-Induced Color Transition in an	**Amorphous** Tungsten Oxide Film	7	2341
Effects of Small	**Amounts** of Silver Added to NiGe Ohmic Contacts to n-Type GaAs	5	1705
Sodium Ion Conductor Based Sensor Attached with NaNO2 for	**Amperometric** Detection of NO2	10	L241
ate Cell Prepared by a Sol-Gel Process	**Amperometric** Gas-Phase Sensor for the Determination of Ammonia in a Solid-St	6	L126
Blocking Inhibitors in Cathodic Leveling. I. Theoretical	**Analysis**	12	3827
Electrochemically Reduced Polycrystalline Tin Oxide Thin Films. Surface	**Analysis** and Electroplated Copper Adhesion	6	2048
ductor Structures	**Analysis** and Application of Hydrogen Supplying Process in Metal-Oxide-Semicon	11	3771
AC Impedance	**Analysis** for Li+ Insertion of a Pt/Lambda-MnO2 Electrode in an Aqueous Phase	8	2810
Modeling and	**Analysis** of a New Multiwafer Hot Wall Phosphorus Doping Reactor	4	1382
TIR Spectroscopy of Metal Oxide Insertion Electrodes: A New Diagnostic Tool for	**Analysis** of Capacity Fading in Secondary Li/LiMn2O4 Cells F	6	L136
Electron Spectroscopy for Chemical	**Analysis** of Cool White Phosphors Coated with SiO2 Thin Film	1	302
Harmonic	**Analysis** of Corroding Systems Considering Diffusion Phenomena	12	4033
Frequency Domains	**Analysis** of Electrochemical Noise Data for Polymer Coated Steel in the Time and	12	L286
The Detection and	**Analysis** of Electrochemical Damage in Bismaleimide/Graphite Fiber Composites	2	449
Thermodynamic	**Analysis** of GaAs1-xPx Vapor Phase Epitaxy	8	2631
chanistic Study of Copper Deposition onto Gold Surfaces by Scaling and Spectral	**Analysis** of In Situ Atomic Force Microscopic Images Me	10	3122
Thermal	**Analysis** of Lithium-Ion Batteries	9	2706
Infrared Spectroscopic	**Analysis** of Phosphosilicate Glass Films for Micromachining	3	968
Perovskites Critical	**Analysis** of Potential Step Data for Oxygen Transport in Electronically Conducting	11	3497
Low-Background Instrumental Neutron Activation	**Analysis** of Silicon Semiconductor Materials	1	339
chlorosilane In Situ Optical	**Analysis** of the Gas Phase during the Deposition of Silicon Carbide from Methyltri	5	1654
ed on a Pt-Ru/C Anode Catalyst	**Analysis** of the Electrochemical Characteristics of a Direct Methanol Fuel Cell Bas	12	3950
	Analysis of Transient Hydrogen Uptake by Metal Alloy Particles	12	4039
Layer and Multilayer Devices of Different Mixed-Conducting Oxides	**Analytic** Solution for Charge Transport and Chemical-Potential Variation in Single-	10	3214
erties Nanocrystalline TiO2	**(Anatase)** Electrodes: Surface Morphology, Adsorption, and Electrochemical Prop	2	394
Fabrication of	**Anatase** Thin Films from Peroxo-Polytitanic Acid by Spray Pyrolysis	9	L191
xides in Molten Carbonate under Oxidant and Reducing Atmospheres. I. Contact	**Angle** and Electrolyte Displacement Meniscus Behavior of Metals and O	8	2442
y and Spectroscopic Ellipsometry Studies of Damage Layer Induced by Large Tilt	**Angle** Ion Implantation Transmission Electron Microscop	8	2636
Effect of Mask Wall	**Angle** on Shape Evolution during Through-Mask Electrochemical Micromachining	2	544
Shallow	**Angle** X-Ray Diffraction from As-Deposited Diamond Thin Films	3	1033
Contact Etching Process Characterization by Using	**Angular** X-Ray Photoelectron Spectroscopy Technique	4	1347
Characterization of Gas-Phase Etching of Thermal Oxide and TEOS Oxide Using	**Anhydrous** HF and CH3OH Modeling and	3	1099
Inhibition Effects of Amines and Thiols on Iron Corrosion in	**Anhydrous** Methanol Solution Containing FeCl3	12	3866
Electrochemical Polymerization of	**Aniline** and Toluidine on RuO2-Coated Titanium Electrodes	12	4019
Spectroscopy Electrochemistry of Conducting Polymers. XIX. Oxidation of	**Aniline** at Bare and Polyaniline-Modified Platinum Electrodes Studied by Electroch	4	1269
Techniques Electrochemistry of Conductive Polymers. XX. Early Stages of	**Aniline** Polymerization Studied by Spectroelectrochemical and Rotating Ring Disk	4	1277
Iron(II) Catalysis of the Mineralization of	**Aniline** Using a Carbon-PTFE O2-Fed Cathode	3	L49
Lithium Salts in Nonaqueous Solutions The Synthesis of a New Family of	**Anion** Receptors and the Studies of Their Effect on Ion Pair Dissociation and Con	12	3825
The Intrinsic Anodic Stability of Several	**Anions** Comprising Solvent-Free Ionic Liquids	3	798
Single-Crystal Cu2O Formation on Amorphous Carbon Electrode and Effect of	**Anions** on the Crystal Habit of Cu2O Particles	7	2105
Tunneling Microscopy Atomic-Scale Elucidation of the	**Anisotropic** Etching of (110) n-Si in Aqueous NH4F: Studies by In Situ Scanning	12	4012
Surface Characteristics of (100) Silicon	**Anisotropically** Etched in Aqueous KOH	4	1372
Applications Moisture Resistance in	**Annealed** Borophosphosilicate Glass Films for Very Large Scale Integrated Circuit	9	3032
Electrical Characteristics of Postoxidation	**Annealed** Very Thin SiO2 Films. Potential Benefits of Rapid Thermal Processing	1	358
Microcrystal Growth on Borophosphosilicate Glass Film during High-Temperature	**Annealing**	2	688
Stabilizing Dielectric Constants of Fluorine-Doped SiO2 Films by N2O-Plasma	**Annealing**	1	381
Dielectric Degradation of Cu/SiO2/Si Structure during Thermal	**Annealing**	3	990
esonance Plasma Rapid Thermal	**Annealing** Behavior of Amorphous SiC Layers Deposited by Electron Cyclotron R	1	271
Oxide Growth Enhancement Related to	**Annealing** Induced Arsenic Accumulation in the Si/SiO2 Interface Region	1	L15
CdSe:In2O3 Coatings with n-Type Conductivity Produced by Air	**Annealing** of CdSe-In Thin Films	9	2882
CHF3 Plasma Etching Effects of	**Annealing** on Damage in AlGaAs Induced by Electron Cyclotron Resonance SF6/	3	1151
The Effect of Post-Cure	**Annealing** on the Protective Properties of Polyimides on a Chromium Substrate	10	3307
Passivation of Sodium Ions in Metal Oxide Semiconductor Structures by	**Annealing** with Ultraviolet Light	10	3389
Simulation of Oxygen Precipitation in Czochralski-Grown Silicon during HI-LO-HI	**Anneals** Computer	3	995
A New Type of a Rocking-Chair Battery Family Based on a Graphite	**Anode** and a Polymer Cathode	2	L29
lectrochemical Characteristics of a Direct Methanol Fuel Cell Based on a Pt-Ru/C	**Anode** Catalyst Analysis of the E	12	3930
Characterization of Ni-YSZ	**Anode** Degradation for Substrate-Type Solid Oxide Fuel Cells	5	1521
on Improved Graphite	**Anode** for Lithium Ion Batteries Chemically Bonded SEI and Nanochannel Formati	1	L4
Use of a Hydrogen	**Anode** for Nitrate Waste Destruction	10	3094
Use of Chloroethylene Carbonate as an Electrolyte Solvent for a Graphite	**Anode** in a Lithium-Ion Battery	7	2230
Optimizing Pyrolysis of Sugar Carbons for Use as	**Anode** Materials in Lithium-Ion Batteries	10	3048
Nature of Charge Traps in	**Anode** Oxide Films on GaAs	3	1109
In Situ FTIR-Diffuse Reflection Spectroscopy of the	**Anode** Surface in a Direct Methanol/Oxygen Fuel Cell	2	L21
dium-Temperature Operating Solid Oxide Fuel Cells. Polarization of Ceria-Based	**Anode** with Highly Dispersed Ruthenium Catalysts in (H2 + CO2 + H2O) Gas	5	1700
r Transform Infrared-Diffuse Reflection Spectroscopy of Direct Methanol Fuel Cell	**Anodes** and Cathodes In Situ Fourie	10	3053
edance Study of the Kinetics and Mechanism of the Anodic Reaction on Graphite	**Anodes** in Saturated Cryolite-Alumina Melts An Imp	6	1840
Cells with Sodium Hypochlorite or Chlorite and	**Anodes** of Magnesium or Aluminum	10	3133
Oxidation and Steam Reforming of CH4 on Ni and Fe	**Anodes** under Low Humidity Conditions in Solid Oxide Fuel Cells	4	1161
The Effect of Preheating Treatment on	**Anodic** Al2O3 Formed on Sputtered Al Thin Films	3	984
A Model for the Incorporation of Electrolyte Species into	**Anodic** Alumina	1	74
ect of Benzotriazole-Type Inhibitors	**Anodic** Behavior of Copper in Iodide Solutions. Comparison with Chloride and Eff	2	458
The	**Anodic** Behavior of Azide Ions at Carbon Electrodes in Neutral Electrolyte	2	586
lyte The	**Anodic** Behavior of Azide Ions on Gold and Platinum Electrodes in Neutral Electro	6	1827
Oxide Fuel Cells Effect of	**Anodic** Concentration Overvoltage on Power Generation Characteristics of Solid	11	3699
	Anodic Dissolution of Iron in a Magnetic Field with Holographic Microphotography	12	L283
ology and Strongly Enhanced Photoresponse of GaP Electrodes Made Porous by	**Anodic** Etching Morph	1	305
Structure of	**Anodic** Films Formed on Magnesium	3	L62
	Anodic Oxidation of Methanol Using a New Base Electrocatalyst	7	L139
aline Medium	**Anodic** Oxidation of Ethylenediaminetetraacetic Acid on Platinum Electrode in Alk	5	1636
The Composition of the Alloy/Film Interface during	**Anodic** Oxidation of Al-W Alloys	8	2468
f the Initial Electrochemical Potential on the Growth Mechanism and Properties of	**Anodic** Oxides on (100) Si Influence o	9	2931
Electrochemical Behavior of Thin	**Anodic** Oxide Films on Zircaloy-4. Role of the Mobile Defects	12	3902
bO2-Film Electrodes Electrocatalysis of	**Anodic** Oxygen-Transfer Reactions: Oxidation of Cr(III) to Cr(VI) at Bi(V)-Doped P	7	2119
Ammonia at Anodized Ag-Pb Eutectic Alloy Electrodes Electrocatalysis of	**Anodic** Oxygen-Transfer Reactions. Temperature Effects on Oxidation of Ethylami	8	2543
Corrosion of Tin Oxide at	**Anodic** Potentials	2	442
An Impedance Study of the Kinetics and Mechanism of the	**Anodic** Reaction on Graphite Anodes in Saturated Cryolite-Alumina Melts	6	1840
Dopant Depth Profiling by	**Anodic** Sectioning Using 0.1 M HCl Electrolyte	11	L256
The Intrinsic	**Anodic** Stability of Several Anions Comprising Solvent-Free Ionic Liquids	3	798
Stress Reduction in	**Anodically** Bonded Silicon and Borosilicate Glass by Thermal Treatment	4	1409
Isolated Submicrometer Filaments Formed by Silicon	**Anodization** in HF Solutions	5	L100
tions. Temperature Effects on Oxidation of Ethylamine, Alanine, and Ammonia at	**Anodized** Ag-Pb Eutectic Alloy Electrodes Electrocatalysis of Anodic Oxyg	8	2543
ntiostatic Conditions. Experimental Study and Mathematical Model	**Anomalous** Codeposition of Fe-Ni Alloys and Fe-Ni-SiO2 Composites under Pote	7	2164
Testing the Role of Metal Hydrolysis in the	**Anomalous** Electrodeposition of Ni-Fe Alloys	12	3918
Particular Reference to Palladium	**Anomalous** Oxidation Reactions at Noble Metal Surfaces at Low Potentials: With	3	845
Formation Mechanism and	**Anticorrosive** Properties of Thin Siloxane Films on Metal Surfaces	1	251
Solid Electrolyte Based Galvanic Cell for Measuring the	**Antimony** Concentration in Molten Zinc	8	2498
Ionic Radius of (CF3SO2)3C- and	**Applicability** of Stokes Law to Its Propylene Carbonate Solution	11	L270
Theoretical Aspects of Laminar Flow in a Channel-Type Electrochemical Cell as	**Applied** to In Situ Attenuated Total Reflection-Infrared Spectroscopy	10	3160

		Issue	Page
Variable Diffusivity in Intercalation Materials. A Theoretical	**Approach**	4	1287
A Systematic	**Approach** to Simulating Rapid Thermal Processing Systems	6	2035
rodes in Alkaline Solution. Integration of Statistical, Electrochemical, and Textural	**Approaches** Oxygen Evolution on Co-Cu-Zn Ternary Spinel Oxide-Coated	4	1218
lvation in the Absence of Supporting Electrolyte Electroreduction of C60 in	**Aprotic** Solvents. III. Voltammetric Study, at Microelectrode, of C60n- (n = 0 to 4)	2	560
Etching SiO2 Films in	**Aqueous** 0.49% HF	9	2885
Surface Morphology of p-Type (100) Silicon Etched in	**Aqueous** Alkaline Solution	5	1744
Spectrophotometric and Electrochemical Study of Gold-Iodide in	**Aqueous** Borate Medium	11	3477
e-Enhanced Raman Spectroelectrochemical Studies of Corrosion Films on Iron in	**Aqueous** Carbonate Solution Surfac	7	2146
Behavior of High-Purity Titanium and Selected A, B and B + A Titanium Alloys in	**Aqueous** Chloride Solutions On the Repassivation	6	1847
ctrochemical Polarization on Optical Properties of Sputter-Prepared Tin Nitride in	**Aqueous** Electrolyte Effect of Ele	1	326
Electrochemical Lithium Intercalation in VO2(B) in	**Aqueous** Electrolytes	9	2730
ation of Electrodeposited Molybdenum Trisulfide, in Mixtures of Nonaqueous and	**Aqueous** Electrolytes Electrochromic Behavior of Molybdenum Trioxide Thi	10	3109
Etching Kinetics of Silicon Dioxide in	**Aqueous** Fluoride Solutions. A Surface Complexation Model	4	1339
Electrical Properties of n-Type (111) Si in	**Aqueous** K4Fe(CN)6 Solution. I. Interface States and Recombination Impedance	8	2531
Electrical Properties of n-Type (111) Si in	**Aqueous** K4Fe(CN)6 Solution. II. Intensity Modulated Photocurrent Spectroscopy	8	2538
Surface Characteristics of (100) Silicon Anisotropically Etched in	**Aqueous** KOH	4	1372
Photolytic and Photocatalytic Destruction of Formaldehyde in	**Aqueous** Media	5	1662
Electrochemical Reduction of Lucigenin on Mercury in	**Aqueous** Media	7	2132
Atomic-Scale Elucidation of the Anisotropic Etching of (110) n-Si in	**Aqueous** NH4F: Studies by In Situ Scanning Tunneling Microscopy	12	4012
hromic Behavior of a Lambda-MnO2 Electrode Accompanying Li+ -Insertion in an	**Aqueous** Phase Electroc	3	905
AC Impedance Analysis for Li+ Insertion of a Pt/Lambda-MnO2 Electrode in an	**Aqueous** Phase	8	2610
spects Reduction of Hexavalent Chromium in	**Aqueous** Solutions by Polypyrrole. II. Thermodynamic, Kinetic, and Mechanistic A	1	44
Toward a Reliable Value for the Diffusion Coefficient of Cupric Ion in	**Aqueous** Solution	4	1248
que Topographic Changes of Polycrystalline Ag and Cu Electrodes in Acid	**Aqueous** Solutions Resulting from a Prolonged Application of the Potential Rever	7	2254
	Ar Plasma-Induced Damage in AlGaAs	9	L219
High Surface	**Area** V2O5 Aerogel Intercalation Electrodes	7	2099
Observation of Electrode Poisoning during the Electro-oxidation of	**Aromatic** Alcohols on (111) Au	7	2088
Electrochemical Insertion of Lithium into Carbon Synthesized from Condensed	**Aromatics**	7	2235
Electrodeposited Silver	**Arrays** Fabricated Utilizing Self-Assembled Alkanethiolate Monolayer Photoresist	10	3117
Oxide Growth Enhancement Related to Annealing Induced	**Arsenic** Accumulation in the Si/SiO2 Interface Region	1	L15
Amorphization of Thin Si Layers by	**Arsenic** Ion Implantation	3	L67
Dissociative Mechanisms of Monosilane and	**Arsine** on Copper(II) Oxide	8	2654
u X-Ray Absorption Near-Edge Spectroscopic Study of the Cathodic Reduction of	**Artificial** Iron Oxide Passive Films In Sit	2	574
sma Etching Endpointing by Monitoring Radio-Frequency Power Systems with an	**Artificial** Neural Network Pla	6	2029
Shallow Angle X-Ray Diffraction from	**As-Deposited** Diamond Thin Films	3	1033
Plasma	**Assisted** Dry Etching of Cobalt Silicide for Microelectronics Applications	2	701
System	**Asymmetric** Distribution of Oxygen Concentration in the Si Melt of a Czochralski	2	722
Si Wafer Etching with Synchrotron Radiation in a CF4 Gas	**Atmosphere**	11	3754
Reaction at the Compact La1-xSrxMnO3/Stabilized Zirconia Interface in Oxygen	**Atmospheres** A Chemical Diffusion-Controlled Electrode	10	3065
tronic Conduction Mechanism in Yttria-Stabilized Zirconia-Titania under Reducing	**Atmospheres** Elec	11	3706
Instability of BaCeO3 in H2O-Containing	**Atmospheres**	4	1386
Behavior of Metals and Oxides in Molten Carbonate under Oxidant and Reducing	**Atmospheres.** I. Contact Angle and Electrolyte Displacement Meniscus	8	2442
A Kinetic Study of Spike Peaks Observed under Pressurized Oxidant Gas	**Atmospheres** in Molten Alkali Carbonates	7	2315
The Synergistic Effect of Hydrogen Sulfide and Nitrogen Dioxide on the	**Atmospheric** Corrosion of Zinc	1	51
A Quartz Crystal Microbalance Probe Developed for Outdoor In Situ	**Atmospheric** Corrosivity Monitoring	3	839
les	**Atmospheric** Corrosion of Aluminum in the Presence of Ammonium Sulfate Partic	4	1175
	Atmospheric Corrosion of Zinc in the Presence of Ammonium Sulfate Particles	5	1539
s(Diethylamido) Titanium and Ammonia	**Atmospheric** Pressure Chemical Vapor Deposition of Titanium Nitride from tetraki	2	736
Characteristics of Silicon Dioxide Films on Patterned Substrates Prepared by	**Atmospheric-Pressure** Chemical Vapor Deposition Using Tetraethoxysilane and	5	1715
ith Direct Wafer Bonding An	**Atomic** Force Microscopy Study on the Roughness of Silicon Wafers Correlated w	7	2385
opper Alloys In Situ	**Atomic** Force Microscopy Observations of the Corrosion Behavior of Aluminum-C	8	2471
opper Deposition onto Gold Surfaces by Scaling and Spectral Analysis of In Situ	**Atomic** Force Microscopic Images Mechanistic Study of C	10	3122
The Application of	**Atomic** Force Microscopy for the Study of Li Deposition Processes	11	3825
First Observations of 0.1 um Size Particles on Si Wafers Using	**Atomic** Force Microscopy and Optical Scattering	12	4125
Deposition of Tin Oxide into Porous Silicon by	**Atomic** Layer Epitaxy	2	683
F: Studies by In Situ Scanning Tunneling Microscopy	**Atomic-Scale** Elucidation of the Anisotropic Etching of (110) n-Si in Aqueous NH4	12	4012
Sodium Ion Conductor Based Sensor	**Attached** with NaNO2 for Amperometric Detection of NO2	10	L241
cts of Laminar Flow in a Channel-Type Electrochemical Cell as Applied to In Situ	**Attenuated** Total Reflection-Infrared Spectroscopy Theoretical Aspe	10	3160
of Electrode Poisoning during the Electro-oxidation of Aromatic Alcohols on (111)	**Au** Observation	7	2088
Studies of the Electrochemical Double Layer at (100)	**Au** in Perchloric Acid Solutions by In Situ Infrared Spectroscopy	8	L171
ng	**Au(III)** in Borate Medium: Electrochemical Behavior and Application to Electroplati	4	1201
Ohmic Resistance of the Electrode-Electrolyte Interface in	**Au/YSZ** Oxygen Electrodes	4	L92
Methacrolein Production from iso-Butane Using a	**Au/Yttria-Stabilized** Zirconia/Ag Electrochemical Reaction Cell	11	L249
ectroless Deposited Ternary Alloys	**Auger** Electron Spectroscopy Element Profiles and Interface with Substrates of El	11	3692
Behavior of Dissolved Molybdenum during Localized Corrosion of	**Austenitic** Stainless Steel	12	L277
alculation of Current Distribution in Electrodeposition on Patterned Cathode with	**Auxiliary** Electrode Three-Dimensional C	2	480
The Dependence of Ring-Like Distributed Stacking Faults on the	**Axial** Temperature Gradient of Growing Czochralski Silicon Crystals	5	1648
The Anodic Behavior of	**Azide** Ions at Carbon Electrodes in Neutral Electrolyte	2	558
The Anodic Behavior of	**Azide** Ions on Gold and Platinum Electrodes in Neutral Electrolyte	6	1827

— B —

l Properties of Mixed Conducting Perovskites La1-xMxCo1-yFeyO3-delta (M = Sr,	**Ba, Ca)** Electrochemica	9	2722
Operating Properties of Solid Oxide Fuel Cells Using	**BaCe0.8Gd0.2O3-Alpha** Electrolyte	6	1886
Instability of	**BaCeO3** in H2O-Containing Atmospheres	4	1386
Silver-BaCe0.8Gd0.2O3 Composites as Cathode Materials for SOFCs Using	**BaCeO3-Based** Electrolytes	3	859
Colloidal Processing of	**BaCeO3-Based** Electrolyte Films	10	3239
Response Time of Photostimulated Luminescence of BaFX:Eu2+ and	**BaFCl:Pr3+** under Near-Infrared Light Stimulation	7	2346
Response Time of Photostimulated Luminescence of	**BaFX:Eu2+** and BaFCl:Pr3+ under Near-Infrared Light Stimulation	7	2346
Float Charging of Valve-Regulated Lead-Acid Batteries: A	**Balancing** Act Between Secondary Reactions	3	790
Silicon-Diamond Interface	**Band** Structure	3	1112
Determination of Transport and Electrochemical Kinetic Parameters of	**Bare** and Copper Coated LaNi4.27Sn0.24 Electrodes in Alkaline Solution	3	834
opy Electrochemistry of Conducting Polymers. XIX. Oxidation of Aniline at	**Bare** and Polyaniline-Modified Platinum Electrodes Studied by Electrochemical Im	4	1269
urrent-Voltage Behavior of a Semiconductor/Liquid Junction with a Small Energy	**Barrier** Impedance and C	5	1598
Orientation Control of Chemical Vapor Deposition TiN Film for	**Barrier** Applications	6	2069
	Barrier Effect of TaSiN Layer for Oxygen Diffusion	11	L264
A Novel Process for Fabricating Conformal and Stable TiN-Based	**Barrier** Films	12	L279
A WSixN Diffusion	**Barrier** Formed with Electron Cyclotron Resonance Nitrogen Plasma	11	3747
Acid Pretreatment	**Barrier** Height Lowering and Instability of Gate Oxides Due to Dilute Hydrofluoric	3	973
Anodic Oxidation of Methanol Using a New	**Base** Electrocatalyst	7	L139
Solid Electrolyte	**Based** Galvanic Cell for Measuring the Antimony Concentration in Molten Zinc	8	2498
A New Type of a Rocking-Chair Battery Family	**Based** on a Graphite Anode and a Polymer Cathode	2	L29
Analysis of the Electrochemical Characteristics of a Direct Methanol Fuel Cell	**Based** on a Pt-Ru/C Anode Catalyst	12	3869
omparative Study of Synthetic Graphite and Li Electrodes in Electrolyte Solutions	**Based** on Ethylene Carbonate-Dimethyl Carbonate Mixtures A C	12	3809
Solid-State Lithium Cells	**Based** on Fluorinated Fullerene Cathodes	7	2267
m Loading A New Fuel Cell Electrocatalyst	**Based** on Highly Porous Carbonized Polyacrylonitrile Foam with Very Low Platinu	1	L7
The Hydrogen Reduction of WF6: A Kinetic Study	**Based** on In Situ Partial Pressure Measurements	5	1668
from "Zero to Saturation" Physical Electrochemistry of Strong Electrolytes	**Based** on Partial Dissociation and Hydration. Quantitative Interpretation of the The	6	1789
Mixed Potential Type NOx Sensor	**Based** on Stabilized Zirconia and Oxide Electrode	2	L33
Extremely High Etch Rates of In-Based III-V Semiconductors in BCl3/N2	**Based** Plasma	10	3394
Sodium Ion Conductor	**Based** Sensor Attached with NaNO2 for Amperometric Detection of NO2	10	L241
afluoride	**Batch** Reactor Kinetic Studies of Tungsten LPCVD from Silane and Tungsten Hex	1	296

		Issue	Page
Electrochemical Deposition of Silver from a Low Cyanide Concentration	**Bath**	9	2799
Impurities in Chemical	**Bath** Deposited CdS Films for Cu(In,Ga)Se2 Solar Cells and Their Stability	8	2662
Electrodeposition of Fe-C Alloys from	**Baths** Containing Dicarboxylic Acids with a Linear Alkyl Chain	8	2584
m Hydrothermal	**BaTiO3** Thin Films on Ti-Covered Silicon: Characterization and Growth Mechanis	3	1133
Ti0.35Zr0.65NixV2-x-yMny Alloys with C14 Laves Phase for Nickel/Metal Hydride	**Batteries** Studies of Electrochemical Properties of	2	429
Safety and Performance of Tadiran TLR-7103 Rechargeable	**Batteries**	7	2110
Polymer Electrolytes and Their Relevance in Plastic-Like, Rechargeable Lithium	**Batteries** A New Class of Advanced	1	6
Phases LiMyMn2-yO4 (M = Co, Cr, Ni) as the Cathode for Rechargeable Lithium	**Batteries** The Spinel	1	178
Organosulfur Polymer Cathode with a High Current Capability for Rechargeable	**Batteries** An	10	3152
Optimizing Pyrolysis of Sugar Carbons for Use as Anode Materials in Lithium-Ion	**Batteries**	10	3048
A High-Rate Carbon Electrode for Rechargeable Lithium-Ion	**Batteries**	3	L84
Thermal Analysis of Lithium-Ion	**Batteries**	9	2708
Differential Measurement of Nonlinear Electrical Relaxation of Lithium	**Batteries**	10	3148
A Novel Electrolyte Solvent for Rechargeable Lithium and Lithium-Ion	**Batteries**	12	4047
Ethylmethylcarbonate, a Promising Solvent for Li-Ion Rechargeable	**Batteries**	12	L273
Synthesis of Amorphous MoO2+delta and Its Electrode Performance in Lithium	**Batteries**	7	L143
A New Three-Volt Spinel Li1+xMn1.5Ni0.5O4 for Secondary Lithium	**Batteries**	5	1607
New Carbon Electrodes for Secondary Lithium	**Batteries**	5	L95
n of Quaternary Li-Mn-V-O Spinel as Positive Materials for Rechargeable Lithium	**Batteries** Physical and Electrochemical Characterizatio	3	1007
Overcharge Protection for Rechargeable Lithium Polymer Electrolyte	**Batteries**	12	3992
Inorganic Electrolyte Solutions and Gels for Rechargeable Lithium	**Batteries**	9	L209
High-Performance Positive Paste for Lead-Acid	**Batteries**	9	2841
Possible Cause of the Memory Effect Observed in Nickel-Cadmium Secondary	**Batteries**	10	L225
Float Charging of Valve-Regulated Lead-Acid	**Batteries**: A Balancing Act Between Secondary Reactions	3	790
Improved Graphite Anode for Lithium Ion	**Batteries** Chemically Bonded SEI and Nanochannel Formation	1	L4
Characterization of Thin-Film Rechargeable Lithium	**Batteries** with Lithium Cobalt Oxide Cathodes	10	3203
hylene Carbonate as an Electrolyte Solvent for a Graphite Anode in a Lithium-Ion	**Battery** Use of Chloroet	7	2230
A Polymer Electrolyte-Based Rechargeable Lithium/Oxygen	**Battery**	1	1
Predictions from the Macrohomogeneous Model of an Aerospace Ni-Cd	**Battery**	3	803
New Electrolyte System for Li-Ion	**Battery**	9	L195
Self-Discharge Mechanism of Sealed-Type Nickel/Metal-Hydride	**Battery**	6	1904
Synthesis and Characterization of Li1+xMn2-xO4 for Li-Ion	**Battery** Applications	1	100
A Transient Method for Measuring Diffusion Coefficients of Thin Film	**Battery** Electrodes. Results for LiyCoO2 and LixC6 Thin Films	6	L129
X-Ray Absorption Near-Edge Structure Evidence for Quadrivalent Nickel in Nickel	**Battery** Electrodes In Situ	5	1613
A New Class of Electrochemically and Thermally Stable Lithium Salts for Lithium	**Battery** Electrolytes. II. Conductivity of Lithium Organoborates in Dimethoxyethane	11	3565
A New Class of Electrochemically and Thermally Stable Lithium Salts for Lithium	**Battery** Electrolytes. III. Synthesis and Properties of Some Lithium Organoborates	11	3572
A New Type of a Rocking-Chair	**Battery** Family Based on a Graphite Anode and a Polymer Cathode	2	L29
Polypyrrole Composite Electrodes in an All-Polymer	**Battery** System	3	936
Effect of	**BCl3** Dry Etching on InAlN Surface Properties	9	L217
Extremely High Etch Rates of In-Based III-V Semiconductors in	**BCl3/N2** Based Plasma	10	3394
rode Film Probe	**Beam** Deflection Combined with Cyclic Voltammetry Studies of C60-Modified Elect	12	3874
ctrical Characteristics of Postoxidation Annealed Very Thin SiO2 Films. Potential	**Benefits** of Rapid Thermal Processing Ele	1	356
Patterning of	**Benzocyclobutene** by Reactive Ion Etching	8	2695
c Behavior of Copper in Iodide Solutions. Comparison with Chloride and Effect of	**Benzotriazole-Type** Inhibitors Anodi	2	458
Electrochemical Behavior of Quasi-Spherical	**Beta-Ni(OH)2** Particles Studied by Raman Spectroscopy	8	2447
	Bevel Etching of Tin-Doped Indium Oxide	2	L40
A Monte Carlo Binary Collision Model for	**BF2** Implants into (100) Single-Crystal Silicon	11	3784
trocatalysis of Anodic Oxygen-Transfer Reactions: Oxidation of Cr(III) to Cr(VI) at	**Bi(V)-Doped** PbO2-Film Electrodes Elec	7	2119
al and Surface Spectroscopic Studies of Thin Films of Bismuth Ruthenium Oxide	**(Bi2Ru2O7)** Electrochemic	11	3504
with Oxidized Nitride Films of Different Nitride Thicknesses under Positive Stress	**Bias** Conduction and Charge-Trapping Characteristics of MOS Capacitors	1	368
erties Defect Generation during Epitaxial CoSi2 Formation Using Co/Ti	**Bilayer** on Oxide Patterned (100)Si Substrate and Its Effect on the Electrical Prop	3	L56
Morphology Evolution of Zinc-Iron	**Binary** Alloys Electrodeposited with Copper Additive	4	L75
Microstructure of Electrodeposited Cu-Ni	**Binary** Alloy Films	6	1976
A Monte Carlo	**Binary** Collision Model for BF2 Implants into (100) Single-Crystal Silicon	11	3784
Electrochemical Behavior of WO3 Films in H3PO4/H2O	**Binary** Mixtures	9	2789
Internal Cation Mobilities in the Molten	**Binary** Systems (Y, La)Cl3 and (Y, Dy)Cl3	1	334
ation and Characterization of Nanostructured Gold Electrodes for Electrochemical	**Biosensors** Fabric	12	3890
Reliability Evaluation of Manufacturing Processes for	**Bipolar** and MOS Devices on Silicon-on-Diamond Materials	4	1326
Double-Layer mc-Si/a-SiCx Emitter in a Silicon Heterojunction	**Bipolar** Transistor with a Cutoff Frequency of 47 GHz	6	1949
The Detection and Analysis of Electrochemical Damage in	**Bismaleimide/Graphite** Fiber Composites	2	449
Electrochemical and Surface Spectroscopic Studies of Thin Films of	**Bismuth** Ruthenium Oxide (Bi2Ru2O7)	11	3504
c Compounds	**Bismuth(III)** and Copper(II) Oxides as Catalysts for the Electro-oxidation of Organi	11	3435
The Effect of	**Blocking** Additives on the Electrodeposition of Cadmium	9	2789
	Blocking Inhibitors in Cathodic Leveling. I. Theoretical Analysis	12	3927
	Blocking Inhibitors in Cathodic Leveling. II. Experimental Investigation	12	3936
Photoimage Formation in a TiO2 Particle-Incorporated Prussian	**Blue Film**	11	3462
red Spectroscopic Studies on a Metal Complex-Immobilized Polyaniline/Prussian	**Blue-Modified** Electrode and the Application to the Electroreduction of CO2	11	3606
Factors Inducing Deterioration of InBO3:Tb by Electron	**Bombardment**	5	1696
Creation and Properties of Nitrogen Dangling	**Bond** Defects in Silicon Nitride Thin Films	11	3685
Improved Graphite Anode for Lithium Ion Batteries Chemically	**Bonded** SEI and Nanochannel Formation	1	L4
Stress Reduction in Anodically	**Bonded** Silicon and Borosilicate Glass by Thermal Treatment	4	1409
croscopy Study on the Roughness of Silicon Wafers Correlated with Direct Wafer	**Bonding** An Atomic Force Mi	7	2365
A Model of Low-Temperature Wafer	**Bonding** and Its Applications	5	1773
Modification of Silicon Surfaces with H2SO4:H2O2:HF and HNO3:HF for Wafer	**Bonding** Applications	5	1709
New Silicon	**Bonding** Method	7	2371
Au(III) in	**Borate** Medium: Electrochemical Behavior and Application to Electroplating	4	1201
Spectrophotometric and Electrochemical Study of Gold-Iodide in Aqueous	**Borate** Medium	11	3477
Effect of Transport Phenomena on	**Boron** Concentration Profiles in Silicon Epitaxial Wafers	2	677
Distribution of Residual Stresses in	**Boron** Doped p+ Silicon Films	10	3389
Electrochemical Behavior of	**Boron** in LiF-NaF-KF Melts	10	3178
n On The Mechanism of	**Boron** Incorporation during Silicon Epitaxy by Means of Chemical Vapor Depositio	2	634
The Mechanisms of Iron Gettering in Sil :on by	**Boron** Ion-Implantation	4	1406
Control of Surface Concentration of	**Boron** or Phosphorus Employing Ion Shower Doping	2	712
allow Junctions during Rapid Thermal Processing from Electron-Beam Deposited	**Boron** Sources Formation of Sh	9	2981
Hydrogen and Oxygen Evolution on	**Boron-Doped** Diamond Electrodes	6	L133
Electrochemical Behavior of	**Boron-Doped** Diamond Electrodes	10	L238
Microcrystal Growth on	**Borophosphosilicate** Glass Film during High-Temperature Annealing	2	666
ap Fill and Film Reflow Capability of Subatmospheric Chemical Vapor Daposited	**Borophosphosilicate** Glass G	4	1414
ions Moisture Resistance in Annealed	**Borophosphosilicate** Glass Films for Very Large Scale Integrated Circuit Applicat	9	3032
Electrical and Physical Characterization of Tetraethylorthosilicate-O3	**Borophosphosilicate** Glass	10	3366
Stress Reduction in Anodically Bonded Silicon and	**Borosilicate** Glass by Thermal Treatment	4	1409
Investigations on High-Temperature Thermal Oxidation Process at Top and	**Bottom** Interfaces of Top Silicon of SIMOX Wafers	1	244
and Removal of Trace Organic Contamination on Silicon Wafers Stored in Plastic	**Boxes** Identification	10	3279
Influence of Cooling Condition during Crystal Growth of CZ-Si on Oxide	**Breakdown** Property	10	3383
Identification of MOS Gate Dielectric	**Breakdown** Spot Using High Selectivity C1 Radical Etching Technique	8	2891
A Search for the Mechanism of Direct Copper Plating via	**Bridging** Ligands	11	3521
The Effect of Ultrafine Pigment Color Filters on Cathode Ray Tube	**Brightness**, Contrast, and Color Purity	3	1063
A New Long Phosphorescent Phosphor with High	**Brightness**, SrAl2O4:Eu2+,Dy3+	8	2870
Critical Hydrogen Concentration for the	**Brittle** Fracture of AISI 430 Stainless Steel	9	2736
Recovery of Bromine from Waste Gas-Phase Hydrogen	**Bromide** Streams Using an Electrolytic Membrane	9	L184
Membrane Recovery of	**Bromine** from Waste Gas-Phase Hydrogen Bromide Streams Using an Electrolytic	9	L184
tion of Glucose on Single Crystal and Polycrystalline Gold Surfaces in Phosphate	**Buffer** Electrochemical Oxida	3	759

		Issue	Page
n Situ Optical Microscopy Investigations of Lithium and Sodium Film Formation in	**Buffered** Room Temperature Molten Salts	1	7 L148
Shape Evolution of Electrodeposited Copper	**Bumps**	6	1880
evelopment of an Electrolysis System with Vertically Circulating Mercury Capillary	**Bundle** Electrode and Its Characteristics A Study on D	9	2717
Etch-Stop Behavior of	**Buried** Layers Formed by Substoichiometric Nitrogen Ion Implantation into Silicon	3	1026
Conducting and Charge-Trapping Defects in	**Buried** Oxide Layers of SIMOX Structures	1	347
Confinement Phenomena in	**Buried** Oxides of SIMOX Structures as Affected by Processing	2	686
Copper Decoration Followed by TEM Observation Identifying Defects in the	**Buried** Oxides of SOI Substrates	7	2357

— C —

uminescence Measurements of Low-Level Oxygen in Thin Silicon Crystal Using a	**C-O** Complex Formed Through Carbon Implantation Photol	9	2876
Identification of MOS Gate Dielectric Breakdown Spot Using High Selectivity	**C1** Radical Etching Technique	8	2891
	C12-Based Dry Etching of GaAs, AlGaAs, and GaP	6	2010
Studies of Electrochemical Properties of Ti0.35Zr0.65NixV2-x-yMny Alloys with	**C14** Laves Phase for Nickel/Metal Hydride Batteries	2	429
The Effect of Gas-Phase Additives C2H4, C2H6, and	**C2H2** on SiH4/O2 Chemical Vapor deposition	4	1355
The Effect of Gas-Phase Additives	**C2H4**, C2H6, and C2H2 on SiH4/O2 Chemical Vapor deposition	4	1355
The Effect of Gas-Phase Additives C2H4,	**C2H6**, and C2H2 on SiH4/O2 Chemical Vapor deposition	4	1355
stics as a Shallow Contact Metallization Epitaxial	**C49-TiSi2** Formation on (100)Si Substrate Using TiNx and Its Electrical Characteri	6	1984
Hydrogenation of	**C60** by Electrolysis of KOH-H2O Solution	6	1919
4) Solvation in the Absence of Supporting Electrolyte Electroreduction of	**C60** in Aprotic Solvents. III. Voltammetric Study, at Microelectrode, of C60n- (n =	2	550
Probe Beam Deflection Combined with Cyclic Voltammetry Studies of	**C60-Modified** Electrode Film	12	3874
Electrochemical Behavior of Fluorinated Fullerenes	**C60Fx** and C70Fx	9	L214
eduction of C60 in Aprotic Solvents. III. Voltammetric Study, at Microelectrode, of	**C60n-** (n = 0 to 4) Solvation in the Absence of Supporting Electrolyte Electr	2	550
Electrochemical Behavior of Fluorinated Fullerenes C60Fx and	**C70Fx**	9	L214
parties of Mixed Conducting Perovskites La1-xMxCo1-yFeyO3-delta (M = Sr, Ba,	**Ca)** Electrochemical Pro	9	2722
Nonstoichiometry of Sintered Oxide	**Ca0.9La0.1MnO3-delta** and Its Cathodic Properties in Alkaline Solutions	2	567
The Effect of Blocking Additives on the Electrodeposition of	**Cadmium**	9	2759
odynamic Properties of U, Np, Pu, and Am in Molten LiCl-KCl Eutectic and Liquid	**Cadmium** Therm	8	2487
Cells Stability of Lanthanum	**Calcium** Chromite-Lanthanum Strontium Manganite Interfaces in Solid Oxide Fuel	7	2332
Auxiliary Electrode Three-Dimensional	**Calculation** of Current Distribution in Electrodeposition on Patterned Cathode with	2	480
Density of States	**Calculations** of Small Diameter Single Graphene Sheets	11	L262
sport Properties and Defect Structure A New	**Candidate** for the Solid Oxide Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Tran	9	2863
s Roles of	**Cap-Metal** on Via Electromigration Resistance in Aluminum-Based Interconnection	3	1043
An Organosulfur Polymer Cathode with a High Current	**Capability** for Rechargeable Batteries	10	3152
ss Gap Fill and Film Reflow	**Capability** of Subatmospheric Chemical Vapor Deposited Borophosphosilicate Gla	4	1414
odes	**Capacitive** Deionization of NaCl and NaNO3 Solutions with Carbon Aerogel Electr	1	159
Monoxide	**Capacitive** Gas Sensor of Mixed Oxide CoO-In2O3 to Selectively Detect Nitrogen	6	1908
LiClO4 Polymer Electrolyte All-Solid-State Electric Double-Layer	**Capacitor** with Isotropic High-Density Graphite Electrode and Polyethylene Oxide/	12	3982
Influence of Side Reactions on the Performance of Electrochemical Double-Layer	**Capacitors** The	6	1806
Porous Nickel Oxide/Nickel Films for Electrochemical	**Capacitors**	1	124
Materials for Electrochemical	**Capacitors**. Theoretical and Experimental Constraints	11	3791
tive Stress Bias Conduction and Charge-Trapping Characteristics of MOS	**Capacitors** with Oxidized Nitride Films of Different Nitride Thicknesses under Posi	1	388
Correlation Between Lithium Intercalation	**Capacity** and Microstructure in Hard Carbons	11	3482
scopy of Metal Oxide Insertion Electrodes: A New Diagnostic Tool for Analysis of	**Capacity** Fading in Secondary Li/LiMn2O4 Cells FTIR Spectro	6	L136
Dissolution of Spinel Oxides and	**Capacity** Losses in 4 V Li/LixMn2O4 Cells	7	2204
udy on Development of an Electrolysis System with Vertically Circulating Mercury	**Capillary** Bundle Electrode and Its Characteristics A St	9	2717
Electric Field Dependence of the Electron	**Capture** Cross Section of Neutral Traps in SiO2	8	2687
Heat Transfer and Mass Transport Modeling of the Sublimation Growth of Silicon	**Carbide** Crystals Thermodynamic	11	3727
In Situ Optical Analysis of the Gas Phase during the Deposition of Silicon	**Carbide** from Methyltrichlorosilane	5	1654
eation Stage Nucleation Kinetics of Diamond on	**Carbide-Forming** Substrates during Chemical Vapor Deposition. I. Transient Nucl	3	1104
A Reverse Monte Carlo Modeling Study of Diamond-Like	**Carbon**	1	292
Capacitive Deionization of NaCl and NaNO3 Solutions with	**Carbon** Aerogel Electrodes	1	159
-Dibromo- and 1,8-Diiodooctane and of 1,10-Dibromo- and 1,10-Diiododecane at	**Carbon** Cathodes in Dimethylformamide Electrochemical Reduction of 1,8	12	3833
Impact of Reactive Ion Etching Induced	**Carbon** Contamination on Oxidation of Silicon	7	2378
A Study of the Oxidation Slow-Down Mechanism Induced by	**Carbon** Contamination on Silicon Surface	9	2965
A High-Rate	**Carbon** Electrode for Rechargeable Lithium-Ion Batteries	3	L84
New	**Carbon** Electrodes for Secondary Lithium Batteries	5	L95
The Anodic Behavior of Azide Ions at	**Carbon** Electrodes in Neutral Electrolyte	2	558
Single-Crystal Cu2O Formation on Amorphous	**Carbon** Electrode and Effect of Anions on the Crystal Habit of Cu2O Particles	7	2105
Chemical Diffusion Coefficient of Lithium in	**Carbon** Fiber	8	2606
Stress in	**Carbon** Film Electrodes during Li+ Electrochemical Intercalation	8	2417
Electrocatalytic Properties of Co, Pt, and Pt-Co on	**Carbon** for the Reduction of Oxygen in Alkaline Fuel Cells	7	2152
Silver Electrocrystallization on Vitreous	**Carbon** from Ammonium Hydroxide Solutions	5	1551
Direct Methanol Fuel Cell Cathodes with Sulfur and Nitrogen-Based	**Carbon** Functionality	10	3073
Low-Level Oxygen in Thin Silicon Crystal Using a C-O Complex Formed Through	**Carbon** Implantation Photoluminescence Measurements of	9	2876
Modeling Lithium Intercalation of Single-Fiber	**Carbon** Microelectrodes	2	600
Morphology of Carbon Nanoclusters Prepared by Catalytic Disproportionation of	**Carbon** Monoxide	3	932
e Morphology of	**Carbon** Nanoclusters Prepared by Catalytic Disproportionation of Carbon Monoxid	3	932
Deposition of Diamond from a Plasma Jet with Dichlorobenzene as	**Carbon** Source	8	2083
Location of Corrosion on Iron and	**Carbon** Steel Surfaces with Crevices	8	L178
Freestanding Diamond Thin Films Grown on Glassy	**Carbon** Substrates	7	L150
Fuel Cells Effects of Microstructure of	**Carbon** Support in the Catalyst Layer on the Performance of Polymer-Electrolyte	7	2245
Hydrogen Electrocatalysis by	**Carbon** Supported Pt and Pt Alloys. An In Situ X-Ray Absorption Study	7	2285
Electrochemical Insertion of Lithium into	**Carbon** Synthesized from Condensed Aromatics	7	2238
Lithium Intercalation of	**Carbon-Fiber** Microelectrodes	1	24
Iron(II) Catalysis of the Mineralization of Aniline Using a	**Carbon-PTFE** O2-Fed Cathode	3	L49
The Chemical State of Sulfur in	**Carbon-Supported** Fuel-Cell Electrodes	3	813
Crystallite Size Effects of	**Carbon-Supported** Platinum on Oxygen Reduction in Liquid Acids	1	18
Corrosion Behavior of Nickel-Iron Alloys in Molten	**Carbonate**	1	68
tes. II. Conductivity of Lithium Organoborates in Dimethoxyethane and Propylene	**Carbonate** A New Class of Electrochemically and Thermally Stable Lithium	11	3565
Mechanisms for Oxidation and Passive Behavior of Nickel in Molten	**Carbonate**	7	2272
Corrosion Behavior of Chromium in Molten	**Carbonate**	1	68
Use of Chloroethylene	**Carbonate** as an Electrolyte Solvent for a Graphite Anode in a Lithium-Ion Battery	7	2230
Electrochemical Oxidation Processes on Ni Electrodes in Propylene	**Carbonate** Containing Various Electrolyte Salts	8	2548
Reactivity of Lithium Intercalated into Petroleum Coke with	**Carbonate** Electrolytes	2	391
and Li Electrodes in Electrolyte Solutions Based on Ethylene Carbonate-Dimethyl	**Carbonate** Mixtures A Comparative Study of Synthetic Graphite	12	3809
of Lithium tris(Trifluoromethanesulfonyl) Methide in Water, Acetonitrile, Propylene	**Carbonate**, N,N-Dimethylformamide, and Nitromethane at 25 C Conductan	1	154
tional Spectroscopic Study on the Interaction Between Lithium Salt and Ethylene	**Carbonate** Plasticizer for PAN-based Electrolytes A Vibra	5	1510
Ionic Radius of (CF3SO2)3C- and Applicability of Stokes Law to Its Propylene	**Carbonate** Solution	11	L270
ed Raman Spectroelectrochemical Studies of Corrosion Films on Iron in Aqueous	**Carbonate** Solution Surface-Enhanc	7	2146
Investigation of Alkali	**Carbonate** Transport Toward the Catalyst in Internal Reforming MCFCs	10	3186
olyte Displacement Meniscus Behavior of Metals and Oxides in Molten	**Carbonate** under Oxidant and Reducing Atmospheres. I. Contact Angle and Electr	8	2442
Study of Deposition and Dissolution Processes of Lithium in	**Carbonate-Based** Solutions by Means of the Quartz-Crystal Microbalance	8	2517
f Synthetic Graphite and Li Electrodes in Electrolyte Solutions Based on Ethylene	**Carbonate-Dimethyl** Carbonate Mixtures A Comparative Study o	12	3809
e Peaks Observed under Pressurized Oxidant Gas Atmospheres in Molten Alkali	**Carbonates** A Kinetic Study of Spik	7	2315
Deformation Mechanism of Porous Nickel Oxide in Molten Li/K	**Carbonates**	8	2481
Crystal Growth of gamma-Lithium Aluminate in Molten Li/K	**Carbonates**	9	2776
Lithiation of Alumina in Molten Li/K	**Carbonates**	11	3458
A New Fuel Cell Electrocatalyst Based on Highly Porous	**Carbonized** Polyacrylonitrile Foam with Very Low Platinum Loading	1	L7
f Mechanical Grinding on the Lithium Intercalation Process in Graphites and Soft	**Carbons** Effect o	12	3969
Hysteresis during Lithium Insertion in Hydrogen-Containing	**Carbons**	7	2137
Correlation Between Lithium Intercalation Capacity and Microstructure in Hard	**Carbons**	11	3482

		Issue	Page
Optimizing Pyrolysis of Sugar	**Carbons** for Use as Anode Materials in Lithium-Ion Batteries	10	3048
Selective Electroless Nickel Deposition on Patterned Phosphonate and	**Carboxylate** Polymer Films	2	691
A Monte	**Carlo** Binary Collisinn Model for BF2 Implants into (100) Single-Crystal Silicon	11	3784
A Reverse Monte	**Carlo** Modeling Study of Diamond-Like Carbon	1	292
ells Monte	**Carlo** Simulations of Conductivity of Composite Electrodes for Solid Oxide Fuel C	3	1123
for Electrodes Monte	**Carlo** Simulations of Polarization Resistance of Composite Solid Oxide Fuel Cells	6	1930
s Photoelectrochemical Doping of TiO2 Particles and the Effect of Charge	**Carrier** Density on the Photocatalytic Activity of Microporous Semiconductor Electr	11	3712
Impact of Fe and Cu Contamination on the Minority	**Carrier** Lifetime of Silicon Substrates	9	3014
Interpretation of	**Carrier** Recombination Lifetime and Diffusion Length Measurements in Silicon	4	1399
Mechanism of AC Electrical Transport of	**Carriers** in Freshly Formed and Aged Porous Silicon	12	3943
Photon	**Cascade** Luminescence of Pr3+ in LaMgB5O10	12	4113
Light-Emitting Porous Silicon from	**Cast** Metallurgical-Grade Silicon	6	L115
Iron(II)	**Catalysis** of the Mineralization of Aniline Using a Carbon-PTFE O2-Fed Cathode	3	L49
s to Study the Removal of Parts per Million CO and O2 from N2 over a Ni-Al2O3	**Catalyst** Using 13CO and 18O18O Tracer	8	2429
emical Characteristics of a Direct Methanol Fuel Cell Based on a Pt-Ru/C Anode	**Catalyst** Analysis of the Electroch	12	3950
A Palladium Sulfide	**Catalyst** for Electrolytic Plating	4	1206
Investigation of Alkali Carbonate Transport Toward the	**Catalyst** in Internal Reforming MCFCs	10	3186
Effects of Microstructure of Carbon Support in the	**Catalyst** Layer on the Performance of Polymer-Electrolyte Fuel Cells	7	2245
Bismuth(III) and Copper(II) Oxides as	**Catalysts** for the Electro-oxidation of Organic Compounds	11	3435
Fuel Cells. Polarization of Ceria-Based Anode with Highly Dispersed Ruthenium	**Catalysts** in (H2 + CO2 + H2O) Gas High-Performance Electrode for Medi	5	1700
Alkaline Solution	**Catalytic** Activities of Rare-Earth Manganites for Cathodic Reduction of Oxygen in	11	L266
Morphology of Carbon Nanoclusters Prepared by	**Catalytic** Disproportionation of Carbon Monoxide	3	932
Hydrogen Evolution Reaction in Alkaline Solution	**Catalytic** Influence of Pt Supported on Graphite vs. Pt Inclusions in Graphite	3	919
A Novel Seed Layer Scheme to Protect	**Catalytic** Surfaces for Electroless Deposition	11	3512
Feasibility Studies of a Fuel Cell for Cogeneration of Homogeneously	**Catalyzed** Acetaldehyde and Electricity from Ethanol	10	3058
Iron(II) Catalysis of the Mineralization of Aniline Using a Carbon-PTFE O2-Fed	**Cathode**	3	L49
pe of a Rocking-Chair Battery Family Based on a Graphite Anode and a Polymer	**Cathode** A New Ty	2	L29
A New Vanadium Dioxide	**Cathode**	9	L193
Morphology and Utilization of Smooth Hydrogen-Evolving Raney Nickel	**Cathode** Coatings and Porous Sintered-Nickel Cathodes	9	2852
The Spinel Phases LiMyMn2-yO4 (M = Co, Cr, Ni) as the	**Cathode** for Rechargeable Lithium Batteries	1	178
Fabrication of Thin Film LiCo0.5Ni0.5O2	**Cathode** for Li Rechargeable Microbattery	11	L268
of Mechanical Processing Procedures on the Decomposition Rate of Silver Oxide	**Cathode** Material The Effect	2	418
Comparison of LiV3O8	**Cathode** Materials Prepared by Different Methods	3	820
Silver-BaCe0.8Gd0.2O3 Composites as	**Cathode** Materials for SOFCs Using BaCeO3-Based Electrolytes	3	859
Synthesis and Electrochemical Studies of Spinel Phase LiMn2O4	**Cathode** Materials Prepared by the Pechini Process	3	879
Dopants Electrochemical Characteristics of Spinel Phase LiMn2O4-Based	**Cathode** Materials Prepared by the Pechini Process. Influence of Firing Temperat	11	3590
Characterization of Sr-Doped LaMnO3 and LaCoO3 as	**Cathode** Materials for a Doped LaGaO3 Ceramic Fuel Cell	11	3630
The Effect of Ultrafine Pigment Color Filters on	**Cathode** Ray Tube Brightness, Contrast, and Color Purity	3	1063
-Dimensional Calculation of Current Distribution in Electrodeposition on Patterned	**Cathode** with Auxiliary Electrode Three	2	480
An Organosulfur Polymer	**Cathode** with a High Current Capability for Rechargeable Batteries	10	3152
A New Candidate for the Solid Oxide Fuel Cell	**Cathode**, Y0.9Ca0.1FeO3. Electrical Transport Properties and Defect Structure	9	2863
Molecular Dynamics Studies of Lithium Injection in Model	**Cathode/Electrolyte** Systems	7	2211
nfrared-Diffuse Reflection Spectroscopy of Direct Methanol Fuel Cell Anodes and	**Cathodes** In Situ Fourier Transform I	10	3053
nt Platinum-Tungsten Oxide-Based Electrocatalysts for Phosphoric Acid Fuel Cell	**Cathodes** Five Perce	12	3842
cterization of Thin-Film Rechargeable Lithium Batteries with Lithium Cobalt Oxide	**Cathodes** Chara	10	3203
h Hydrogen-Evolving Raney Nickel Cathode Coatings and Porous Sintered-Nickel	**Cathodes** Morphology and Utilization of Smoot	9	2852
Solid-State Lithium Cells Based on Fluorinated Fullerene	**Cathodes**	7	2267
Sol-Gel-Derived Thin-Film Manganese Dioxide	**Cathodes**	5	1629
Microstructure-Property Relations of Solid Oxide Fuel Cell	**Cathodes** and Current Collectors. Cathodic Polarization and Ohmic Resistance	2	530
o- and 1,8-Diiodooctane and of 1,10-Dibromo- and 1,10-Diiododecane at Carbon	**Cathodes** in Dimethylformamide Electrochemical Reduction of 1,8-Dibrom	12	3833
Direct Methanol Fuel Cell	**Cathodes** with Sulfur and Nitrogen-Based Carbon Functionality	10	3073
	Cathodic Electrodeposition of Nanocrystalline Titanium Dioxide Thin Films	5	1547
Electrolyte Optimization for	**Cathodic** Growth of Zinc Oxide Films	3	L83
Blocking Inhibitors in	**Cathodic** Leveling. I. Theoretical Analysis	12	3927
Blocking Inhibitors in	**Cathodic** Leveling. II. Experimental Investigation	12	3936
ure-Property Relations of Solid Oxide Fuel Cell Cathodes and Current Collectors.	**Cathodic** Polarization and Ohmic Resistance Microstruct	2	530
Nonstoichiometry of Sintered Oxide Ca0.9La0.1MnO3-delta and Its	**Cathodic** Properties in Alkaline Solutions	2	667
Catalytic Activities of Rare-Earth Manganites for	**Cathodic** Reduction of Oxygen in Alkaline Solution	11	L266
In Situ X-Ray Absorption Near-Edge Spectroscopic Study of the	**Cathodic** Reduction of Artificial Iron Oxide Passive Films	2	674
An Electrical Model for the	**Cathodically** Charged Aluminum Electrode	9	2827
Synthesis and	**Cathodoluminescent** Performance of Green-Emitting SrS:Mn Phosphors	7	2328
Synthesis and Low-Voltage Characteristics of	**CaTiO3:Pr** Luminescent Powders	10	L231
Internal	**Cation** Mobilities in the Molten Binary Systems (Y, La)Cl3 and (Y, Dy)Cl3	1	334
The Isotope Effect on the Internal	**Cation** Mobility of Molten Dysprosium Chloride	12	3830
n Compounds: Structural Characteristics and Electrochemical Insertion of Lithium	**Cations** Vanadium Oxide Fluoride-Graphite Intercalatio	7	2093
Electrochemical Intercalation of Hydrated Hexilaminium	**Cations** into the Layered Compound 2H-NbS2	8	2522
emical Vapor Deposition	**Cause** of Aligned-Orientation Growth of Titanium Silicide in Plasma Enhanced Ch	11	3778
Possible	**Cause** of the Memory Effect Observed in Nickel-Cadmium Secondary Batteries	10	L225
Impurities in Chemical Bath Deposited	**CdS** Films for Cu(In,Ga)Se2 Solar Cells and Their Stability	8	2662
CdSe:In2O3 Coatings with n-Type Conductivity Produced by Air Annealing of	**CdSe-In** Thin Films	9	2892
e-In Thin Films	**CdSe:In2O3** Coatings with n-Type Conductivity Produced by Air Annealing of CdS	9	2892
Effects of Postdeposition Heat-Treatment on Morphology and Microstructure of	**CdTe** Grown by Electrodeposition	2	517
Surface Exchange Properties of	**Ce0.9Gd0.1O2-x** Coated with La1-xSrxFeyCo1-yO3-delta	10	L229
e Separation, and Overpotential in the Ferricyanide/Ferrocyanide Thermogalvanic	**Cell** Power Conversion Efficiency, Electrod	8	2568
LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic Fuel	**Cell** Characterization of Sr-Doped	11	3630
Thermal Stability of Concentrated V(V) Electrolytes in the Vanadium Redox	**Cell**	4	L88
of Methanol Crossover in a Liquid-Feed Polymer-Electrolyte Direct Methanol Fuel	**Cell** Effect	8	2601
Improvements of the Rechargeable Alkaline MnO2-Zn	**Cell**	1	13
e Mass Spectrometric Study of the Methanol Crossover in a Direct Methanol Fuel	**Cell** Real-Tim	4	1233
A Multiphase Mathematical Model of a Nickel/Hydrogen	**Cell**	10	3223
Reflection Spectroscopy of the Anode Surface in a Direct Methanol/Oxygen Fuel	**Cell** In Situ FTIR-Diffuse	2	L21
rom iso-Butane Using a Au/Yttria-Stabilized Zirconia/Ag Electrochemical Reaction	**Cell** Methacrolein Production f	11	L249
Formic Acid Oxidation in a Polymer Electrolyte Fuel	**Cell**. A Real-Time Mass-Spectrometry Study	7	L188
urier Transform Infrared-Diffuse Reflection Spectroscopy of Direct Methanol Fuel	**Cell** Anodes and Cathodes In Situ Fo	10	3053
The Performance and Stability of Ambient Temperature Molten Salts for Solar	**Cell** Applications	10	3099
Theoretical Aspects of Laminar Flow in a Channel-Type Electrochemical	**Cell** as Applied to In Situ Attenuated Total Reflection-Infrared Spectroscopy	10	3180
Analysis of the Electrochemical Characteristics of a Direct Methanol Fuel	**Cell** Based on a Pt-Ru/C Anode Catalyst	12	3950
e Microstructure-Property Relations of Solid Oxide Fuel	**Cell** Cathodes and Current Collectors. Cathodic Polarization and Ohmic Resistanc	2	530
e A New Candidate for the Solid Oxide Fuel	**Cell** Cathode, Y0.9Ca0.1FeO3. Electrical Transport Properties and Defect Structur	9	2863
Direct Methanol Fuel	**Cell** Cathodes with Sulfur and Nitrogen-Based Carbon Functionality	10	3073
ercent Platinum-Tungsten Oxide-Based Electrocatalysts for Phosphoric Acid Fuel	**Cell** Cathodes Five P	12	3842
h Very Low Platinum Loading A New Fuel	**Cell** Electrocatalyst Based on Highly Porous Carbonized Polyacrylonitrile Foam wit	1	L7
Perfluoro-ethylene-1,2-bis-phosphonic Acid Fuel	**Cell** Electrolyte	9	2765
l Stability of Proton Conducting Acid Doped Polybenzimidazole in Simulated Fuel	**Cell** Environments Therma	4	1225
Thermal Stability of Nafion in Simulated Fuel	**Cell** Environments	5	1498
Solid Electrolyte Based Galvanic	**Cell** for Measuring the Antimony Concentration in Molten Zinc	8	2498
om Ethanol Feasibility Studies of a Fuel	**Cell** for Cogeneration of Homogeneously Catalyzed Acetaldehyde and Electricity fr	10	3058
A Hydrogen-Nitric Oxide	**Cell** for the Synthesis of Hydroxylamine	11	3491
Chromium Vapor Species over Solid Oxide Fuel	**Cell** Interconnect Materials and Their Potential for Degradation Processes	11	3642
Sodium/Phosphorus-Sulfur Cells. I.	**Cell** Performance	2	406
Systematic Theoretical Study of Alloys of Platinum for Enhanced Methanol Fuel	**Cell** Performance	6	2075
perometric Gas-Phase Sensor for the Determination of Ammonia in a Solid-State	**Cell** Prepared by a Sol-Gel Process Am	6	L126

			Issue	Page
ew Successive System for Hydrogenation of Styrene Using a Two-Compartment	**Cell** Separated by a Pd Sheet Electrode	A N	4	L71
A Hydrogen Sulfide Fuel	**Cell** Using a Proton-Conducting Solid Electrolyte		3	L55
Performance Data of a Proton Exchange Membrane Fuel	**Cell** Using H2/CO as Fuel Gas		12	3838
Interpretation of the Power Response of a Fuel	**Cell** with a Quadratic Logistic Differential Equation		6	L113
Electrochemical Characteristics of Crystalline and Amorphous SnS2 in Lithium	**Cells**		9	2847
Dissolution of Spinel Oxides and Capacity Losses in 4 V Li/LixMn2O4	**Cells**		7	2204
on Support in the Catalyst Layer on the Performance of Polymer-Electrolyte Fuel	**Cells**	Effects of Microstructure of Carb	7	2245
A New Diagnostic Tool for Analysis of Capacity Fading in Secondary Li/LiMn2O4	**Cells**	FTIR Spectroscopy of Metal Oxide Insertion Electrodes:	6	L136
ties of Co, Pt, and Pt-Co on Carbon for the Reduction of Oxygen in Alkaline Fuel	**Cells**	Electrocatalytic Proper	7	2182
alcium Chromite-Lanthanum Strontium Manganite Interfaces in Solid Oxide Fuel	**Cells**	Stability of Lanthanum C	7	2332
Performance of Lithium/V2O5 Xerogel Coin	**Cells**		11	3473
nequilibrium Thermodynamics to the Electrode Surfaces of Aluminum Electrolysis	**Cells**	Application of No	11	3440
ncentration Overvoltage on Power Generation Characteristics of Solid Oxide Fuel	**Cells**	Effect of Anodic Co	11	3699
Self-Humidifying Polymer Electrolyte Membranes for Fuel	**Cells**		12	3847
High Performance Direct Methanol Polymer Electrolyte Fuel	**Cells**		1	L12
roperties of Doped Lanthanum Chromites as Interconnectors for Solid Oxide Fuel	**Cells**	Electrochemical P	5	1583
ree-Phase Homogeneous Model for Porous Electrodes in Molten-Carbonate Fuel	**Cells**	A Th	5	1617
e Carlo Simulations of Conductivity of Composite Electrodes for Solid Oxide Fuel	**Cells**	Mont	3	1123
aldehyde and Ethylene Glycol Through Ion Permeable Membranes in Electrolytic	**Cells**	A Study of the Transport of Form	1	175
A Gas Distributor for Proton-Exchange-Membrane Fuel	**Cells**		5	L103
of CH4 on Ni and Fe Anodes under Low Humidity Conditions in Solid-Oxide Fuel	**Cells**	Oxidation and Steam Reforming	4	1181
parison of Modeling Predictions with Experimental Data from Plastic Lithium-Ion	**Cells**	Com	6	1890
aracterization of Ni-YSZ Anode Degradation for Substrate-Type Solid Oxide Fuel	**Cells**	Ch	5	1521
Impurities in Chemical Bath Deposited CdS Films for Cu(In,Ga)Se2 Solar	**Cells** and Their Stability		8	2662
Solid-State Lithium	**Cells** Based on Fluorinated Fullerene Cathodes		7	2287
Characterization of Solid Oxide Fuel	**Cells** by Use of an Internal Pt Voltage Probe		5	1588
onte Carlo Simulations of Polarization Resistance of Composite Solid Oxide Fuel	**Cells** for Electrodes	M	6	1930
Sodium/Phosphorus-Sulfur	**Cells**. I. Cell Performance		2	406
Sodium/Phosphorus-Sulfur	**Cells**. II. Phase Equilibria		2	412
igh-Performance Electrode for Medium-Temperature Operating Solid Oxide Fuel 1700	**Cells**. Polarization of Ceria-Based Anode with Highly Dispersed Ruthenium Cataly			5
Response Time of Thin-Layer Electrolytic	**Cells** to Potential-Step Signals		12	4006
Characterization of Polymer Electrolyte Fuel	**Cells** Using AC Impedance Spectroscopy		2	587
Operating Properties of Solid Oxide Fuel	**Cells** Using BaCe0.8Gd0.203-Alpha Electrolyte		6	1886
Rechargeable 3 V Li	**Cells** Using Hydrated Lamellar Manganese Oxide		11	3429
Charge and Discharge Characteristics of Thermochargeable Galvanic	**Cells** with an [Fe(CN)6]4-/[Fe(CN)6]3- Redox Couple		4	1305
m	**Cells** with Sodium Hypochlorite or Chlorite and Anodes of Magnesium or Aluminu		10	3133
	Cementation of Copper on Aluminum in Alkaline Solutions		4	1300
elective Oxidation of Propene Using an Electrochemical Membrane Reactor with	**CeO2-Based** Solid Electrolyte	S	4	1264
n of Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3	**Ceramic** Fuel Cell	Characterizatio	11	3630
ctrode for Medium-Temperature Operating Solid Oxide Fuel Cells. Polarization of	**Ceria-Based** Anode with Highly Dispersed Ruthenium Catalysts in (H2 + CO2 + H		5	1700
Steady-Stage Growth of NiO Scales on	**Ceria-Coated** Polycrystalline Nickel		9	3000
nd Rotating-Disk-Electrode Methods Studies of the Formation of	**Cerium-Rich** Protective Films Using X-Ray Absorption Near-Edge Spectroscopy a		1	147
Semiconductor Silicon by Infrared Spectrophotometry Methodology for the	**Certification** of Reference Specimens for Determination of Oxygen Concentration		1	258
Ionic Radius of	**(CF3SO2)3C-** and Applicability of Stokes Law to Its Propylene Carbonate Solution		11	L270
Si Wafer Etching with Synchrotron Radiation in a	**CF4** Gas Atmosphere		11	3754
ynchrotron-Radiation-Excited Etching of Silicon Wafer Enhanced by Disk-Shaped	**CF4** Plasma	S	12	4109
Reactive Ion Etching of 6H-SiC in SF6/O2 and	**CF4/O2** with N2 Additive for Device Fabrication		3	1037
Gas-Phase Etching of Thermal Oxide and TEOS Oxide Using Anhydrous HF and	**CH3OH** Modeling and Characterization of		3	1099
s Oxidation and Steam Reforming of	**CH4** on Ni and Fe Anodes under Low Humidity Conditions in Solid Oxide Fuel Cell		4	1181
High Ion Density Plasma Etching of InGaP, AlInP, and AlGaP in	**CH4/H2/Ar**		3	1093
Selective Dry Etching of III-V Nitrides in Cl2/Ar,	**CH4/H2/Ar**, Cl/Ar, and IBr/Ar		10	L246
Comparison of Dry Etching Techniques for III-V Semiconductors in	**CH4/H2/Ar** Plasmas		2	752
sition of Fe-C Alloys from Baths Containing Dicarboxylic Acids with a Linear Alkyl	**Chain**	Electrodepo	8	2584
Physical Property	**Change** of FeOOH(AD)1/4 during Lithium Insertion and Extraction		9	2713
Iodide Ions Piezoelectric Detection of	**Changes** in Surface Energy of Gold Electrode in Perchlorate Solutions Containing		3	899
ly Etched Potential-Induced	**Changes** in the Surface Morphology of (100) n-InP Samples Photoelectrochemical		9	2815
a Prolonged Application of the Potential Reversal Technique Topographic	**Changes** of Polycrystalline Ag and Cu Electrodes in Acid Aqueous Solutions Resu		7	2294
on-Infrared Spectroscopy Theoretical Aspects of Laminar Flow in a	**Channel-Type** Electrochemical Cell as Applied to In Situ Attenuated Total Reflecti		10	3180
ysis System with Vertically Circulating Mercury Capillary Bundle Electrode and Its	**Characteristics** A Study on Development of an Electrol		9	2717
Vanadium Oxide Fluoride-Graphite Intercalation Compounds: Structural	**Characteristics** and Electrochemical Insertion of Lithium Cations		7	2093
Epitaxial C49-TiSi2 Formation on (100)Si Substrate Using TiNx and Its Electrical	**Characteristics** as a Shallow Contact Metallization		6	1984
Electromigration	**Characteristics** for Al-Ge-Cu		3	1088
Surface	**Characteristics** of (100) Silicon Anisotropically Etched in Aqueous KOH		4	1372
st Analysis of the Electrochemical	**Characteristics** of a Direct Methanol Fuel Cell Based on a Pt-Ru/C Anode Cataly		12	3950
Synthesis and Low-Voltage	**Characteristics** of CaTiO3:Pr Luminescent Powders		10	L231
Electrochemical	**Characteristics** of Crystalline and Amorphous SnS2 in Lithium Cells		9	2847
Thicknesses under Positive Stress Bias Conduction and Charge-Trapping	**Characteristics** of MOS Capacitors with Oxidized Nitride Films of Different Nitride		1	368
ts of Rapid Thermal Processing Electrical	**Characteristics** of Postoxidation Annealed Very Thin SiO2 Films. Potential Benefi		1	356
aphy Self-Developing	**Characteristics** of Si Containing Polymers and Their Application to X-Ray Lithogr		2	657
thoxysilane at Room Temperature by Chemical Vapor Deposition	**Characteristics** of SiOF Films Formed Using Tetraethylorthosilicate and Fluorotrie		2	707
Pressure Chemical Vapor Deposition Using Tetraethoxysilane and Ozone	**Characteristics** of Silicon Dioxide Films on Patterned Substrates Prepared by At		8	1715
Reflow Electromigration	**Characteristics** of Sputtered TiN/Ti/AlSiCu/TiON/Ti Interconnects with Aluminum		10	3297
ini Process. Influence of Firing Temperature and Dopants Electrochemical	**Characteristics** of Spinel Phase LiMn2O4-Based Cathode Materials Prepared by t		11	3890
Effect of Anodic Concentration Overvoltage on Power Generation	**Characteristics** of Solid Oxide Fuel Cells		11	3699
6]3- Redox Couple Charge and Discharge	**Characteristics** of Thermochargeable Galvanic Cells with an [Fe(CN)6]4-/[Fe(CN)		4	1305
ne-Implanted and Crystallized Amorphous Silicon Films	**Characteristics** of Top-Gate Polysilicon Thin-Film Transistors Fabricated on Fluori		10	3302
Using a Sol-Gel Method Luminescence	**Characteristics** of the Lanthanide Complex Incorporated into an ORMOSIL Matrix		10	3333
High Temperature Local Oxidation of Silicon Field Isolation Morphological	**Characterization**		11	L259
Hydrothermal BaTiO3 Thin Films on Ti-Covered Silicon:	**Characterization** and Growth Mechanism		3	1133
mer Coupled Plasma Etcher	**Characterization** and Residue Elimination of Hot Aluminum Etching in a Transfor		5	1763
Contact Etching Process	**Characterization** by Using Angular X-Ray Photoelectron Spectroscopy Technique		4	1347
Preparation and	**Characterization** of Fine-Grain Yttrium-Based Phosphors by Sol-Gel Process		1	189
Anhydrous HF and CH3OH Modeling and	**Characterization** of Gas-Phase Etching of Thermal Oxide and TEOS Oxide Using		3	1099
Chemical Vapor Deposited Films	**Characterization** of High Oxygen: Tetraethylorthosilicate Ratio Plasma-Enhanced		3	1079
Using Infrared Spectroscopy Structural and Compositional	**Characterization** of High Energy Separation by Implantation of Oxygen Structures		9	3019
Synthesis and	**Characterization** of Li1+xMn2-xO4 for Li-Ion Battery Applications		1	100
Microstructural	**Characterization** of Lithiated Graphite		6	L120
Preparation and Electrochemical	**Characterization** of Micron-Sized Spinel LiMn2O4		5	1591
tained by Ion Implantation	**Characterization** of Na+-Sensitive Electrolyte/Oxide/Semiconductor Structures Ob		4	1422
uel Cells	**Characterization** of Ni-YSZ Anode Degradation for Substrate-Type Solid Oxide F		5	1521
rs Fabrication and	**Characterization** of Nanostructured Gold Electrodes for Electrochemical Biosenso		12	3890
copy	**Characterization** of Polymer Electrolyte Fuel Cells Using AC Impedance Spectros		2	587
Oxide Film	**Characterization** of Proton-Induced Color Transition in an Amorphous Tungsten		7	2341
geable Lithium Batteries Physical and Electrochemical	**Characterization** of Quaternary Li-Mn-V-O Spinel as Positive Materials for Rechar		3	1007
Surface	**Characterization** of RuO2-SnO2 Coated Titanium Electrodes		1	32
	Characterization of Solid Oxide Fuel Cells by Use of an Internal Pt Voltage Probe		5	1558
Electrochemical and X-Ray Photoelectron Spectroscopy	**Characterization** of Surface Films on MmNi3.5Al0.8Co0.7		8	2422
citors	**Characterization** of Solution Derived RuO2 Electrodes for Pb(Zr,Ti)O3 Microcapa		9	3098
oped LaGaO3 Ceramic Fuel Cell	**Characterization** of Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a D		11	3630
ent for Oxygen Evolution in Alkaline Solution	**Characterization** of the Electroless Ni-Mo-P/SnO2/Ti Electrodes with Heat-Treatm		7	2158
Oxide Cathodes	**Characterization** of Thin-Film Rechargeable Lithium Batteries with Lithium Cobalt		10	3203

		Issue	Page
Electrical and Physical	**Characterization** of Tetraethylorthosilicate-O3 Borophosphosilicate Glass	10	3386
Energetic	**Characterizations** of Particulate RbPb2Nb3O10 Electrodes	5	1492
n [Fe(CN)6]4-/[Fe(CN)6]3- Redox Couple	**Charge** and Discharge Characteristics of Thermochargeable Galvanic Cells with a	4	1305
de Films Photoelectrochemical Doping of TiO2 Particles and the Effect of	**Charge** Carrier Density on the Photocatalytic Activity of Microporous Semiconduct	11	3712
Devices of Different Mixed-Conducting Oxides Analytic Solution for	**Charge** Transport and Chemical-Potential Variation in Single-Layer and Multilayer	10	3214
Nature of	**Charge** Traps in Anode Oxide Films on GaAs	3	1109
Electro-optical	**Charge** Trapping in Zinc Porphyrin Films on Indium Tin Oxide and /SiO2/Si	6	1914
f Different Nitride Thicknesses under Positive Stress Bias Conduction and	**Charge-Trapping** Characteristics of MOS Capacitors with Oxidized Nitride Films o	1	368
Conducting and	**Charge-Trapping** Defects in Buried Oxide Layers of SIMOX Structures	1	347
An Electrical Model for the Cathodically	**Charged** Aluminum Electrode	9	2827
ndary Reactions Float	**Charging** of Valve-Regulated Lead-Acid Batteries: A Balancing Act Between Seco	3	790
Electron Spectroscopy for	**Chemical** Analysis of Cool White Phosphors Coated with SiO2 Thin Film	1	302
lity Impurities in	**Chemical** Bath Deposited CdS Films for Cu(In,Ga)Se2 Solar Cells and Their Stabi	8	2662
Nonuniformities in Chemical Oxides on Silicon Surfaces Formed during Wet	**Chemical** Cleaning	7	2280
mperature Deposition of Silicon Dioxide Films by Ion-Assisted Plasma Enhanced	**Chemical** Deposition Room Te	4	1443
	Chemical Diffusion Coefficient of Lithium in Carbon Fiber	8	2606
Stabilized Zirconia Interface in Oxygen Atmospheres A	**Chemical** Diffusion-Controlled Electrode Reaction at the Compact La1-xSrxMnO3/	10	3065
Wet	**Chemical** Digital Etching of GaAs at Room Temperature	11	3682
Wet	**Chemical** Etch Solutions for AlxGa1-xP	1	L1
Wet	**Chemical** Etching of High Quality V-Grooves with {111} A Sidewalls on (001) InP	10	3271
Wet	**Chemical** Etching of AlN and InAlN in KOH Solutions	11	3681
Microscale Dishing Effect in a	**Chemical** Mechanical Planarization Process for Trench Isolation	12	L281
Near-Global Planarization of Oxide-Filled Shallow Trenches Using	**Chemical** Mechanical Polishing	11	3718
Electrochemistry of Chemical Vapor Deposited Tungsten Films with Relevance to	**Chemical** Mechanical Polishing	12	4095
Planar Compatible Polymer Technology for Packaging of	**Chemical** Microsensors	6	2020
Nonuniformities in	**Chemical** Oxides on Silicon Surfaces Formed during Wet Chemical Cleaning	7	2280
Infrared Spectroscopy Study of	**Chemical** Oxides Formed by a Sequence of RCA Standard Cleaning Treatments	9	2995
d by X-Ray Photoelectron Spectroscopy Effects of Plasma Excitation and	**Chemical** Pretreatment on Adsorption of Tungsten Hexafluoride on Silicon and Sili	11	3670
Si-F-H2O System Dissolution Windows for Wet	**Chemical** Processing of Silicon and Silicon Dioxide: Potential-pH Diagrams for the	2	749
e	**Chemical** Sensitivity of the Thickness-Shear-Mode Quartz-Resonator Nanobalanc	9	2835
hanol Solutions The Role of	**Chemical** Species in the Passivation of <100> Silicon Surfaces by HF in Water-Et	12	4089
The	**Chemical** State of Sulfur in Carbon-Supported Fuel-Cell Electrodes	3	813
Control of Selective Tungsten	**Chemical** Vapor Deposition by Monolayer Nitridation of Silicon Surface	2	L38
Stability of TiN Films Prepared by	**Chemical** Vapor Deposition Using Tetrakis-dimethylamino Titanium	9	L188
ses Low Pressure	**Chemical** Vapor Deposition of Si1-xGex Films Using Si2H6 and GeH4 Source Ga	1	383
Thermal Model Validation for Rapid Thermal	**Chemical** Vapor Deposition of Polysilicon	1	374
Growth and Resistivity Behavior of Copper Film by	**Chemical** Vapor Deposition	2	624
On The Mechanism of Boron Incorporation during Silicon Epitaxy by Means of	**Chemical** Vapor Deposition	2	634
Nucleation and Film Evolution on Silicon Dioxide Using Disilane. Rapid Thermal	**Chemical** Vapor Deposition of Very Smooth Silicon at High Deposition Rates	2	649
Using Tetraethylorthosilicate and Fluorotriethoxysilane at Room Temperature by	**Chemical** Vapor Deposition Characteristics of SiOF Films Formed	2	707
m and Ammonia Atmospheric Pressure	**Chemical** Vapor Deposition of Titanium Nitride from tetrakis(Diethylamido) Titaniu	2	738
ge Current Mechanism of Amorphous and Polycrystalline Ta2O5 Films Grown by	**Chemical** Vapor Deposition Leaka	3	977
Characterization of High Oxygen: Tetraethylorthosilicate Ratio Plasma-Enhanced	**Chemical** Vapor Deposited Films	3	1079
Nucleation Kinetics of Diamond on Carbide-Forming Substrates during	**Chemical** Vapor Deposition. I. Transient Nucleation Stage	3	1104
The Effect of Gas-Phase Additives C2H4, C2H6, and C2H2 on SiH4/O2	**Chemical** Vapor deposition	4	1355
Electrochromic Properties of Cobalt Oxide Thin Films Prepared by	**Chemical** Vapor Deposition	4	1383
Gap Fill and Film Reflow Capability of Subatmospheric	**Chemical** Vapor Deposited Borophosphosilicate Glass	4	1414
	Chemical Vapor Deposition of Tungsten Schottky Diodes to 6H-SiC	5	1662
Electrochromic Properties of Iron Oxide Thin Films Prepared by	**Chemical** Vapor Deposition	5	1675
f High-Quality Nitrided Silicon Dioxide Films Using Electron-Cyclotron Resonance	**Chemical** Vapor Deposition with Nitrous Oxide and Silane Formation o	5	1681
ilicon Dioxide Films on Patterned Substrates Prepared by Atmospheric-Pressure	**Chemical** Vapor Deposition Using Tetraethoxysilane and Ozone Characteri	5	1715
Process-Property Relationships in Si1-xGex	**Chemical** Vapor Deposition. Thermodynamic and Kinetic Studies	5	1719
A Predictive Kinetic Model for the	**Chemical** Vapor Deposition of TiSi2	5	1726
carbonyl Chromium Oxide Thin Films Prepared by	**Chemical** Vapor Deposition from Chromium Acetylacetonate and Chromium Hexa	6	1955
Structural Model Effects on the Predictions of	**Chemical** Vapor Infiltration Models	6	1962
Dielectric Constant and Stability of Fluorine-Doped Plasma Enhanced	**Chemical** Vapor Deposited SiO2 Thin Films	6	2015
Orientation Control of	**Chemical** Vapor Deposition TiN Film for Barrier Applications	6	2059
Mesoscopic Scale Modeling of Microloading during Low Pressure	**Chemical** Vapor Deposition	8	2624
SiF4 Remote Plasma Enhanced	**Chemical** Vapor Deposition of Silicon Films at Low Temperatures from Si2H6-H2-	8	2640
On the Role of Chlorine in Selective Silicon Epitaxy by	**Chemical** Vapor Deposition	10	3290
Particle Size Distribution in a Low Pressure SiH4:O2:He	**Chemical** Vapor Deposition Reactor. Experimental and Numerical Results	10	3397
Cause of Aligned-Orientation Growth of Titanium Silicide in Plasma Enhanced	**Chemical** Vapor Deposition	11	3778
al Polishing Electrochemistry of	**Chemical** Vapor Deposited Tungsten Films with Relevance to Chemical Mechanic	12	4095
f di-Pi-cyclopentadienyl Manganese as a Dopant Source for ZnS in Metalforganic	**Chemical** Vapor Deposition Use o	12	4116
Modeling of the Wear Mechanism during	**Chemical-Mechanical** Polishing	2	718
Mixed-Conducting Oxides Analytic Solution for Charge Transport and	**Chemical-Potential** Variation in Single-Layer and Multilayer Devices of Different	10	3214
Improved Graphite Anode for Lithium Ion Batteries	**Chemically** Bonded SEI and Nanochannel Formation	1	L4
Selective Oxidation of Thiols to Disulfides at Polymeric Cobalt Phthalocyanine	**Chemically** Modified Electrodes	4	1283
New Method of Purification of HF	**Chemicals** for Very Large Scale Integration Manufacturing	12	4119
Photo- and	**Chemiluminescence** from Wohler Siloxanes	8	2674
Plasma Treatment Process for Palladium	**Chemisorption** onto Polymers before Electroless Deposition	2	472
Comparison of ICl and IBr Plasma	**Chemistries** for Etching of InGaAlP Alloys	11	3656
A Model for the Gas-Phase	**Chemistry** Occurring in a Furnace N2O Oxynitride Process	5	1753
The Redox	**Chemistry** of Niobium(V) Fluoro and Oxofluoro Complexes in LiF-NaF-KF Melts	6	1793
-Phase Reactions Computational	**Chemistry** Predictions of Kinetics and Major Reaction Pathways for Germane Gas	8	2646
s from Silicon Substrates Using Electrolysis-Ionized Water Containing Ammonium	**Chloride** Removal of Metal and Organic Contaminant	5	1632
The Isotope Effect on the Internal Cation Mobility of Molten Dysprosium	**Chloride**	12	3830
Electrodeposition of Nickel-Aluminum Alloys from the Aluminum	**Chloride** - 1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten Salt	1	130
Electrochemical and Spectroscopic Studies of Ytterbium in the Aluminum	**Chloride** - 1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten Salt	1	170
ynamics, and Transport Properties of Molten Salt Solutions. I. 4-Methylpyridinium	**Chloride** and 4-Methylpyridinium Iodide Structure, 1H NMR Spectra, Ther	1	183
Anodic Behavior of Copper in Iodide Solutions. Comparison with	**Chloride** and Effect of Benzotriazole-Type Inhibitors	2	458
In Situ Infrared Studies of Polyvinyl	**Chloride** Films Exposed to H2/O2/Ar Downstream Microwave Plasmas	9	2896
Molten Salts Spectroscopic and Electrochemical Studies of Europium(III)	**Chloride** in Aluminum Chloride-1-Methyl-3-ethylimidazolium Chloride Room Temp	3	914
Stripping of Sodium from a Room Temperature 1,2-Dimethyl-3-propylimidazolium	**Chloride Melt** Plating and	7	2262
and Stripping of Sodium from a Room Temperature 1-Methyl-3-propylimidazolium	**Chloride Melt** Plating	12	3820
ickel-Aluminum Alloys from the Aluminum Chloride - 1-Methyl-3-ethylimidazolium	**Chloride** Room Temperature Molten Salt Electrodeposition of N	1	130
opic Studies of Ytterbium in the Aluminum Chloride - 1-Methyl-3-ethylimidazolium	**Chloride** Room Temperature Molten Salt Electrochemical and Spectrosc	1	170
udies of Europium(III) Chloride in Aluminum Chloride-1-Methyl-3-ethylimidazolium	**Chloride** Room Temperature Molten Salts Spectroscopic and Electrochemi	3	914
of High-Purity Titanium and Selected A, B and B + A Titanium Alloys in Aqueous	**Chloride** Solutions On the Repassivation Behavior	6	1847
pectroscopic and Electrochemical Studies of Europium(III) Chloride in Aluminum	**Chloride-1-Methyl-3-ethylimidazolium** Chloride Room Temperature Molten Salts	3	914
Dehydroxylation of LiAlCl4.xSO2 Electrolytes Using	**Chlorine**	11	3585
On the Role of	**Chlorine** in Selective Silicon Epitaxy by Chemical Vapor Deposition	10	3290
Adsorption of	**Chlorine** on TiSi2: Application to Etching and Deposition of Silicide Films	1	266
Cells with Sodium Hypochlorite or	**Chlorite** and Anodes of Magnesium or Aluminum	10	3133
n and Stripping of Lithium and Sodium on Inert Electrodes in Room Temperature	**Chloroaluminate** Molten Salts Electrodepositio	3	908
Electrodeposition of Cobalt-Aluminum Alloys from Room Temperature	**Chloroaluminate** Molten Salt	9	2747
ectrodeposition of Cobalt and Cobalt-Aluminum Alloys from a Room Temperature	**Chloroaluminate** Molten Salt El	11	3448
hium-Ion Battery Use of	**Chloroethylene** Carbonate as an Electrolyte Solvent for a Graphite Anode in a Lit	7	2230
Electrochemical Reductions of Hg(II), Ruthenium-Nitrosyl Complex,	**Chromate**, and Nitrate in a Strong Alkaline Solution	12	3801
Dimensional Instability of Doped Lanthanum	**Chromite**	9	2919
Stability of Lanthanum Calcium	**Chromite-Lanthanum** Strontium Manganite Interfaces in Solid Oxide Fuel Cells	7	2332
Electrochemical Properties of Doped Lanthanum	**Chromites** as Interconnectors for Solid Oxide Fuel Cells	5	1583

		Issue	Page
Chromium Oxide Thin Films Prepared by Chemical Vapor Deposition from	**Chromium** Acetylacetonate and Chromium Hexacarbonyl	6	1955
ms Prepared by Chemical Vapor Deposition from Chromium Acetylacetonate and	**Chromium** Hexacarbonyl Chromium Oxide Thin Fil	6	1955
Mechanistic Aspects Reduction of Hexavalent	**Chromium** in Aqueous Solutions by Polypyrrole. II. Thermodynamic, Kinetic, and	1	44
Corrosion Behavior of	**Chromium** in Molten Carbonate	1	88
um Acetylacetonate and Chromium Hexacarbonyl	**Chromium** Oxide Thin Films Prepared by Chemical Vapor Deposition from Chromi	6	1955
he Effect of Post-Cure Annealing on the Protective Properties of Polyimides on a	**Chromium** Substrate T	10	3307
heir Potential for Degradation Processes	**Chromium** Vapor Species over Solid Oxide Fuel Cell Interconnect Materials and T	11	3642
Determination of the Critical Temperature for Forming a	**Chromium-Rich** Oxide on AISI 430 Stainless Steel and Its Corrosion Resistance	8	2493
ce in Annealed Borophosphosilicate Glass Films for Very Large Scale Integrated	**Circuit** Applications Moisture Resistan	9	3032
A Study on Development of an Electrolysis System with Vertically	**Circulating** Mercury Capillary Bundle Electrode and Its Characteristics	9	2717
Competitive Pathways in the Electrochemical Reduction of	**Citral**	8	2462
Reactive Ion Etching of Copper Films in an SiCl4, N2,	**Cl2**, and NH3 Mixture	12	4089
Selective Dry Etching of III-V Nitrides in	**Cl2**/Ar, CH4/H2/Ar, ICl/Ar, and IBr/Ar	10	L248
hargeable Lithium Batteries A New	**Class** of Advanced Polymer Electrolytes and Their Relevance in Plastic-Like, Rac	1	6
ium Organoborates in Dimethoxyethane and Propylene Carbonate A New	**Class** of Electrochemically and Thermally Stable Lithium Salts for Lithium Battery	11	3565
ytes. III. Synthesis and Properties of Some Lithium Organoborates A New	**Class** of Electrochemically and Thermally Stable Lithium Salts for Lithium Battery	11	3572
The Viability of GeH4-Based In Situ	**Clean** for Low Temperature Silicon Epitaxial Growth	7	2387
The Reaction of	**Clean** Li Surfaces with Small Molecules in Ultrahigh Vacuum. I. Dioxygen	2	422
RCA	**Clean** Replacement	6	2064
Unintentional Doping of Wafers Due to Organophosphates in the	**Clean** Room Ambient	9	2906
niformities in Chemical Oxides on Silicon Surfaces Formed during Wet Chemical	**Cleaning** Nonu	7	2280
cated by Single-Wafer Processing Using SiH2Cl2-NH3-H2 System and In Situ H2	**Cleaning** Ultrathin Silicon Nitride Films Fabri	4	1459
Improvement of High Temperature Water Rinsing and Drying for HF-Last Wafer	**Cleaning**	1	233
Total Room Temperature Wet	**Cleaning** for Si Substrate Surface	9	2957
Vacuum/Chemical Vapor Deposition H2	**Cleaning** of Silicon Wafers before Low-Temperature Epitaxial Growth by Ultrahigh	7	2381
Influence of SC-1/SC-2	**Cleaning** on Wafer-Bonded Silicon Dioxide Structures	11	3722
pectroscopy Study of Chemical Oxides Formed by a Sequence of RCA Standard	**Cleaning** Treatments Infrared S	9	2995
Using 13CO and 18O18O Tracers to Study the Removal of Parts per Million	**CO** and O2 from N2 over a Ni-Al2O3 Catalyst	8	2429
The Spinel Phases LiMyMn2-yO4 (M =	**Co**, Cr, Ni) as the Cathode for Rechargeable Lithium Batteries	1	179
Selective	**CO** Detection by Using Indium Oxide-Based Semiconductor Gas Sensor	2	L36
Effects of Ni, Fe, Cu, and Cr Substitutions for	**Co** in La0.8Sr0.2CoO3 on Electrocatalytic Properties for Oxygen Evolution	5	1505
Electrocatalytic Properties of	**Co**, Pt, and Pt-Co on Carbon for the Reduction of Oxygen in Alkaline Fuel Cells	7	2152
tatistical, Electrochemical, and Textural Approaches Oxygen Evolution on	**Co-Cu-Zn** Ternary Spinel Oxide-Coated Electrodes in Alkaline Solution. Integratio	4	1219
Properties Defect Generation during Epitaxial CoSi2 Formation Using	**Co/Ti** Bilayer on Oxide Patterned (100)Si Substrate and Its Effect on the Electrical	3	L56
e/Prussian Blue-Modified Electrode and the Application to the Electroreduction of	**CO2** In Situ Fourier Transform Infrared Spectroscopic Studies on a Metal C	11	3606
zation of Ceria-Based Anode with Highly Dispersed Ruthenium Catalysts in (H2 +	**CO2** + H2O) Gas High-Performance Electrode for Medium-Temperature Op	5	1700
Pulsed Electroreduction of	**CO2** on Silver Electrodes	2	582
d Spectroelectrochemical Investigations of Sol-Gel Derived Electrochromic Spinel	**Co3O4** Films Structural an	5	1532
Scanning Tunneling Microscopy Kinetics of Particle	**Coarsening** at Gold Electrode/Electrolyte Solution Interfaces Followed by In Situ	2	466
In Situ Formation of	**Coated** and Composite Palladium Particles via Spray Pyrolysis	11	3762
ination of Transport and Electrochemical Kinetic Parameters of Bare and Copper	**Coated** LaNi4.27Sn0.24 Electrodes in Alkaline Solution Determ	3	834
Analysis of Electrochemical Noise Data for Polymer	**Coated** Steel in the Time and Frequency Domains	12	L288
Surface Characterization of RuO2-SnO2	**Coated** Titanium Electrodes	1	32
Surface Exchange Properties of Ce0.9Gd0.1O2-x	**Coated** with La1-xSrxFeyCo1-yO3-delta	10	L229
Electron Spectroscopy for Chemical Analysis of Cool White Phosphors	**Coated** with SiO2 Thin Film	1	302
nse of TiO2-WO3 Mixed Oxide Films Prepared by Thermal Oxidation of Titanium	**Coated** with Tungsten The Photoelectrochemical Respo	7	2226
Morphology and Utilization of Smooth Hydrogen-Evolving Raney Nickel Cathode	**Coatings** and Porous Sintered-Nickel Cathodes	9	2852
als Large-Area Electrochromic	**Coatings**. Composites of Polyaniline and Polyacrylate-Silica Hybrid Sol-Gel Materi	8	2591
ms CdSe:In2O3	**Coatings** with n-Type Conductivity Produced by Air Annealing of CdSe-In Thin Fil	9	2892
olten Salt Electrodeposition of	**Cobalt** and Cobalt-Aluminum Alloys from a Room Temperature Chloroaluminate M	11	3448
Countercation-Sensitive Electrochromism of	**Cobalt** Hexacyanoferrate Films	1	L10
Electrochromic Properties of	**Cobalt** Oxide Thin Films Prepared by Chemical Vapor Deposition	4	1383
Characterization of Thin-Film Rechargeable Lithium Batteries with Lithium	**Cobalt** Oxide Cathodes	10	3203
Selective Oxidation of Thiols to Disulfides at Polymeric	**Cobalt** Phthalocyanine Chemically Modified Electrodes	4	1283
Electrochemical and Spectroelectrochemical Studies of	**Cobalt** Phthalocyanine Polymers	6	1800
Plasma Assisted Dry Etching of	**Cobalt** Silicide for Microelectronics Applications	2	701
Electrodeposition of	**Cobalt-Aluminum** Alloys from Room Temperature Chloroaluminate Molten Salt	9	2747
Electrodeposition of Cobalt and	**Cobalt-Aluminum** Alloys from a Room Temperature Chloroaluminate Molten Salt	11	3448
Electrochromism of Electrochemically	**Codeposited** Composites of Phosphomolybdic Acid and Tungsten Trioxide	9	2784
Induced	**Codeposition**. I. An Experimental Investigation of Ni-Mo Alloys	3	886
Alloys Induced	**Codeposition**. II. A Mathematical Model Describing the Electrodeposition of Ni-Mo	3	893
nditions. Experimental Study and Mathematical Model Anomalous	**Codeposition** of Fe-Ni Alloys and Fe-Ni-SiO2 Composites under Potentiostatic Co	7	2184
Toward a Reliable Value for the Diffusion	**Coefficient** of Cupric Ion in Aqueous Solution	4	1348
Chemical Diffusion	**Coefficient** of Lithium in Carbon Fiber	8	2698
res Electro-osmotic Drag	**Coefficient** of Water and Methanol in Polymer Electrolytes at Elevated Temperatu	4	1260
A Novel Electrochemical Method for Measuring Salt Diffusion	**Coefficients** and Ion Transference Numbers	2	L44
a Discriminated Ion Determination of Improved Selectivity	**Coefficients** of Polymer Membrane Ion-Selective Electrodes by Conditioning with	4	L83
Films A Transient Method for Measuring Diffusion	**Coefficients** of Thin Film Battery Electrodes. Results for LiyCoO2 and LixC6 Thin	6	L129
Voltammetric Response of Nicotinamide	**Coenzyme** I at a Silver Electrode	7	L141
anol Feasibility Studies of a Fuel Cell for	**Cogeneration** of Homogeneously Catalyzed Acetaldehyde and Electricity from Eth	10	3058
Performance of Lithium/V2O5 Xerogel	**Coin** Cells	11	3473
Reactivity of Lithium Intercalated into Petroleum	**Coke** with Carbonate Electrolytes	2	391
Microstructure-Property Relations of Solid Oxide Fuel Cell Cathodes and Current	**Collectors**. Cathodic Polarization and Ohmic Resistance	2	530
A Monte Carlo Binary	**Collision** Model for BF2 Implants into (100) Single-Crystal Silicon	11	3784
	Colloidal Processing of BaCeO3-Based Electrolyte Films	10	3239
The Effect of Ultrafine Pigment	**Color** Filters on Cathode Ray Tube Brightness, Contrast, and Color Purity	3	1063
f Ultrafine Pigment Color Filters on Cathode Ray Tube Brightness, Contrast, and	**Color** Purity The Effect o	3	1063
Characterization of Proton-Induced	**Color** Transition in an Amorphous Tungsten Oxide Film	7	2341
Poly(p-phenylene terephthalamide) Film Immobilizing Oligomer Species as a	**Colored** Matrix for Three-Color Electrochromic Displays	9	L212
ctrode Sensors The	**Combined** Influence of Interfacial Reaction Resistance and Fluid Flow on Microele	7	2252
Probe Beam Deflection	**Combined** with Cyclic Voltammetry Studies of C60-Modified Electrode Film	12	3874
Mixed Potential Hydrogen Sensor	**Combining** Oxide Ion Conductor with Oxide Electrode	7	L154
Theory and Simulation of Solid-Electrolyte Wide-Range Sensors for	**Combustion-Gas** Streams	7	2396
A Chemical Diffusion-Controlled Electrode Reaction at the	**Compact** La1-xSrxMnO3/Stabilized Zirconia Interface in Oxygen Atmospheres	10	3066
s Based on Ethylene Carbonate-Dimethyl Carbonate Mixtures A	**Comparative** Study of Synthetic Graphite and Li Electrodes in Electrolyte Solution	12	3809
Oxide Growth Effects in Micron and Submicron Field Regions. A	**Comparison** Between Wet and Dry Oxidation	9	2953
asmas	**Comparison** of Dry Etching Techniques for III-V Semiconductors in CH4/H2/Ar Pl	2	782
sorption from the Gas Phase	**Comparison** of Hydrogen Electroadsorption from the Electrolyte with Hydrogen Ad	4	1240
	Comparison of ICl and IBr Plasma Chemistries for Etching of InGaAlP Alloys	11	3458
	Comparison of LiV3O8 Cathode Materials Prepared by Different Methods	3	820
Study of the Poly[oxymethylene oligo-(oxy-ethylene)]/Lithium Metal Interface.	**Comparison** of Linear, Cross Linked, and Alkylated Electrolyte Films	4	1292
Ion Cells	**Comparison** of Modeling Predictions with Experimental Data from Plastic Lithium-	6	1890
Anodic Behavior of Copper in Iodide Solutions.	**Comparison** with Chloride and Effect of Benzotriazole-Type Inhibitors	2	458
Planar	**Compatible** Polymer Technology for Packaging of Chemical Microsensors	6	2020
	Competitive Pathways in the Electrochemical Reduction of Citral	8	2462
Electrochemical Reductions of Hg(II), Ruthenium-Nitrosyl	**Complex**, Chromate, and Nitrate in a Strong Alkaline Solution	12	3801
escence Measurements of Low-Level Oxygen in Thin Silicon Crystal Using a C-O	**Complex** Formed Through Carbon Implantation Photolumin	9	2876
Luminescence Characteristics of the Lanthanide	**Complex** Incorporated into an ORMOSIL Matrix Using a Sol-Gel Method	10	3333
CO2 In Situ Fourier Transform Infrared Spectroscopic Studies on a Metal	**Complex-Immobilized** Polyaniline/Prussian Blue-Modified Electrode and the Appli	11	3606
Etching Kinetics of Silicon Dioxide in Aqueous Fluoride Solutions. A Surface	**Complexation** Model	4	1339
tion Studies of ZnCl2-PEO and Mixed Salt ZnCl2/KCl-PEO and ZnCl2/CsCl-PEO	**Complexes** X-Ray Absorp	10	3198
Synthesis of LiCH(SO2CF3)2 and Ionic Conductivity of Polyether-Salt	**Complexes**	4	1297

		Issue	Page
The Redox Chemistry of Niobium(V) Fluoro and Oxofluoro	**Complexes** in LiF-NaF-KF Melts	6	1793
Polypyrrole	**Composite** Electrodes in an All-Polymer Battery System	3	936
Monte Carlo Simulations of Conductivity of	**Composite** Electrodes for Solid Oxide Fuel Cells	3	1123
A New Humidity Sensor Using the	**Composite** Film Derived from Poly(o-phenylenediamine) and Poly(vinyl alcohol)	9	2925
In Situ Formation of Coated and	**Composite** Palladium Particles via Spray Pyrolysis	11	3762
Monte Carlo Simulations of Polarization Resistance of	**Composite** Solid Oxide Fuel Cells for Electrodes	6	1930
etection and Analysis of Electrochemical Damage in Bismaleimide/Graphite Fiber	**Composites** The D	2	449
Silver-BaCe0.8Gd0.2O3	**Composites** as Cathode Materials for SOFCs Using BaCeO3-Based Electrolytes	3	859
Large-Area Electrochromic Coatings.	**Composites** of Polyaniline and Polyacrylate-Silica Hybrid Sol-Gel Materials	8	2591
Electrochromism of Electrochemically Codeposited	**Composites** of Phosphomolybdic Acid and Tungsten Trioxide	9	2784
al Model Anomalous Codepo·ition of Fe-Ni Alloys and Fe-Ni-SiO2	**Composites** under Potentiostatic Conditions. Experimental Study and Mathematic	7	2164
Flow-Induced	**Composition** Modulated NiFe Thin Films with Nanometer-Scale Wavelengths	3	873
kel Effect of the	**Composition** of Polypyrrole Substrate on the Electrodeposition of Copper and Nic	2	498
Electrochemical Studies Optimization of the	**Composition** of the Li1-zNi1+zO2 Electrode Materials: Structural, Magnetic, and	4	1168
The	**Composition** of the Alloy/Film Interface during Anodic Oxidation of Al-W Alloys	8	2465
ygen Structures Using Infrared Spectroscopy Structural and	**Compositional** Characterization of High Energy Separation by Implantation of Ox	9	3019
Electrochemical Intercalation of Hydrated Hexilaminium Cations into the Layered	**Compound** 2H-NbS2	8	2522
smuth(III) and Copper(II) Oxides as Catalysts for the Electro-oxidation of Organic	**Compounds** Bi	11	3435
An Investigation of Lithium Ion Insertion into Spinel Structure Li-Mn-O	**Compounds**	3	825
Oxidation Kinetics of Water and Organic	**Compounds** by Silver (II) Using a Potentiometric Method	6	1860
The Effect of Various Naturally Occurring Metal-Binding	**Compounds** on the Electrochemical Behavior of Aluminum	1	114
ations Vanadium Oxide Fluoride-Graphite Intercalation	**Compounds**: Structural Characteristics and Electrochemical Insertion of Lithium C	7	2093
The Intrinsic Anodic Stability of Several Anions	**Comprising** Solvent-Free Ionic Liquids	3	798
r Germane Gas-Phase Reactions	**Computational** Chemistry Predictions of Kinetics and Major Reaction Pathways fo	8	2846
HI-LO-HI Anneals	**Computer** Simulation of Oxygen Precipitation in Czochralski-Grown Silicon during	3	995
educed-Fluid Dynamic Discharge Model for Applications in Technology-Oriented	**Computer-Aided** Design A R	6	1940
Thermal Stability of	**Concentrated** V(V) Electrolytes in the Vanadium Redox Cell	4	L86
Electrochemical Deposition of Silver from a Low Cyanide	**Concentration** Bath	9	2799
Critical Hydrogen	**Concentration** for the Brittle Fracture of AISI 430 Stainless Steel	9	2736
Investigation of Defect	**Concentration** in Implanted Silicon Substrates by Hydrogen Decoration	12	4101
Solid Electrolyte Based Galvanic Cell for Measuring the Antimony	**Concentration** in Molten Zinc	8	2498
dology for the Certification of Reference Specimens for Determination of Oxygen	**Concentration** in Semiconductor Silicon by Infrared Spectrophotometry Me	1	258
Asymmetric Distribution of Oxygen	**Concentration** in the Si Melt of a Czochralski System	2	722
Control of Surface	**Concentration** of Boron or Phosphorus Employing Ion Shower Doping	2	712
uel Cells Effect of Anodic	**Concentration** Overvoltage on Power Generation Characteristics of Solid Oxide F	11	3699
Effect of Transport Phenomena on Boron	**Concentration** Profiles in Silicon Epitaxial Wafers	2	677
Electrochemical Insertion of Lithium into Carbon Synthesized from	**Condensed** Aromatics	7	2235
Influence of Cooling	**Condition** during Crystal Growth of CZ-Si on Oxide Breakdown Property	10	3383
proved Selectivity Coefficients of Polymer Membrane Ion-Selective Electrodes by	**Conditioning** with a Discriminated Ion Determination of Im	4	L83
In Situ Spectroscopy in the Presence of Convective Flow under Steady-State	**Conditions**: A Unified Mathematical Formalism	11	3539
us Codeposition of Fe-Ni Alloys and Fe-Ni-SiO2 Composites under Potentiostatic	**Conditions**. Experimental Study and Mathematical Model Anomalo	7	2164
xidation and Steam Reforming of CH4 on Ni and Fe Anodes under Low Humidity	**Conditions** in Solid Oxide Fuel Cells O	4	1161
Relation Between Physical Properties and Deposition	**Conditions** of Electrodeposited CuInSe2	7	2173
ropylene Carbonate, N,N-Dimethylformamide, and Nitromethane at 25 C	**Conductance** of Solutions of Lithium tris(Trifluoromethanesulfonyl) Methide in Wat	1	154
Effects of an External Electric Field from a Substrate on	**Conductance** of SnO2 Thin Films	4	1334
Thermal Stability of Proton	**Conducting** Acid Doped Polybenzimidazole in Simulated Fuel Cell Environments	4	1225
tures	**Conducting** and Charge-Trapping Defects in Buried Oxide Layers of SIMOX Struc	1	347
ion of Neutron Radiography to Visualize the Motion of Lithium Ions in Lithium Ion	**Conducting** Materials Applicat	6	1868
Electrochemical Properties of Mixed	**Conducting** Perovskites La1-xMxCo1-yFeyO3-delta (M = Sr, Ba, Ca)	9	2722
Critical Analysis of Potential Step Data for Oxygen Transport in Electronically	**Conducting** Perovskites	11	3497
Studied by Electrochemical Impedance Spectroscopy Electrochemistry of	**Conducting** Polymers. XIX. Oxidation of Aniline at Bare and Polyaniline-Modified	4	1269
Nitride Films of Different Nitride Thicknesses under Positive Stress Bias	**Conduction** and Charge-Trapping Characteristics of MOS Capacitors with Oxidize	1	388
On Electron	**Conduction** and Trapping in SIMOX Dielectric	10	3354
spheres Electronic	**Conduction** Mechanism in Yttria-Stabilized Zirconia-Titania under Reducing Atmo	11	3706
uctors Microstructural Effects on	**Conduction** Properties of Na5YSi4O12-Type Glass-Ceramic Na+-Fast Ionic Cond	7	2180
hemical and Rotating Ring Disk Electrode Techniques Electrochemistry of	**Conductive** Polymers. XX. Early Stages of Aniline Polymerization Studied by Spe	4	1277
vent Mixtures with Lithium tris(Trifluoromethanesulfonyl)methide	**Conductivity** and Electrochemical Stability of Electrolytes Containing Organic Sol	4	L80
Using Interdigitated Microarray Electrodes In Situ	**Conductivity** Measurements of LiCoO2 Film during Lithium Insertion/Extraction by	10	3187
Its Polymer Electrolyte Solutions in Polydimethylsiloxane Voltammetry and	**Conductivity** of a Polyether-Pyridinium Room Temperature Molten Salt Electrolyte	2	401
A Temperature Study of the Ionic	**Conductivity** of a Hybrid Polymer Electrolyte	2	570
Monte Carlo Simulations of	**Conductivity** of Composite Electrodes for Solid Oxide Fuel Cells	3	1123
Superior Oxygen Ion	**Conductivity** of Lanthanum Gallate Doped with Strontium and Magnesium	5	1644
chemically and Thermally Stable Lithium Salts for Lithium Battery Electrolytes. II.	**Conductivity** of Lithium Organoborates in Dimethoxyethane and Propylene Carbo	11	3585
y of Anion Receptors and the Studies of Their Effect on Ion Pair Dissociation and	**Conductivity** of Lithium Salts in Nonaqueous Solutions The Synthesis of a	12	3825
Thermodynamic Stability and Electronic	**Conductivity** of Na-beta-Alumina	3	943
hod Proton	**Conductivity** of Nafion 117 as Measured by a Four-Electrode AC Impedance Met	4	1254
Synthesis of LiCH(SO2CF3)2 and Ionic	**Conductivity** of Polyether-Salt Complexes	4	1297
CdSe:In2O3 Coatings with n-Type	**Conductivity** Produced by Air Annealing of CdSe-In Thin Films	9	2892
O2 Sodium Ion	**Conductor** Based Sensor Attached with NaNO2 for Amperometric Detection of N	10	L241
Mixed Potential Hydrogen Sensor Combining Oxide Ion	**Conductor** with Oxide Electrode	7	L154
ts on Conduction Properties of Na5YSi4O12-Type Glass-Ceramic Na+-Fast Ionic	**Conductors** Microstructural Effec	7	2180
Superprotonic	**Conductors** of Glassy Zirconium Phosphates	1	144
rocessing	**Confinement** Phenomena in Buried Oxides of SIMOX Structures as Affected by P	2	695
A Novel Process for Fabricating	**Conformal** and Stable TiN-Based Barrier Films	12	L279
Photoelectrochemical Energy Conversion at the	**Conjugated** Polymer/Redox Polymer Electrolyte Interface	7	2310
Si-SiO2 Electronic Interface Roughness as a	**Consequence** of Si-SiO2 Topographic Interface Roughness	3	1021
Natural Organics and Environmental Stability of Mercury. Electrochemical	**Considerations**	6	L123
Harmonic Analysis of Corroding Systems	**Considering** Diffusion Phenomena	12	4033
osited SiO2 Thin Films Dielectric	**Constant** and Stability of Fluorine-Doped Plasma Enhanced Chemical Vapor Dep	6	2015
Stabilizing Dielectric	**Constants** of Fluorine-Doped SiO2 Films by N2O-Plasma Annealing	1	381
Materials for Electrochemical Capacitors. Theoretical and Experimental	**Constraints**	11	3791
d Zirconia and Metal Sulfate	**Construction** and Working Mechanism of Sulfur Dioxide Sensor Utilizing Stabilize	2	609
ls and Oxides in Molten Carbonate under Oxidant and Reducing Atmospheres. I.	**Contact** Angle and Electrolyte Displacement Meniscus Behavior of Meta	8	2442
Spectroscopy Technique	**Contact** Etching Process Characterization by Using Angular X-Ray Photoelectron	4	1347
Al-Ge Reflow Sputtering for Submicron	**Contact** Hole Filling	1	228
n on (100)Si Substrate Using TiNx and Its Electrical Characteristics as a Shallow	**Contact** Metallization Epitaxial C49-TiSi2 Formatio	6	1984
The Use of a Double Mask System to Prevent Ti Diffusion from a Ti/Pt/Au Ohmic	**Contact** on Diamond	7	2392
Ohmic	**Contacts** Formed on n-GaSb by Electrochemical Deposition	3	1014
ectors Electrochemically Fabricated High-Barrier Schottky	**Contacts** on n-InP and Their Application for Metal-Semiconductor-Metal Photodet	6	1948
Effects of Small Amounts of Silver Added to NiGe Ohmic	**Contacts** to n-Type GaAs	5	1705
g Ammonium Chloride Removal of Metal and Organic	**Contaminants** from Silicon Substrates Using Electrolysis-Ionized Water Containin	5	1632
A New Potentiometric Sensor for the Detection of Trace Metallic	**Contaminants** in Hydrofluoric Acid	10	L235
Is Ti	**Contamination** in Si Wafer Processing an Issue?	7	2353
Impact of Reactive Ion Etching Induced Carbon	**Contamination** on Oxidation of Silicon	7	2378
Electrochemical Investigation of Copper	**Contamination** on Silicon Wafers from HF Solutions	9	2870
A Study of the Oxidation Slow-Down Mechanism Induced by Carbon	**Contamination** on Silicon Surface	9	2965
Identification and Removal of Trace Organic	**Contamination** on Silicon Wafers Stored in Plastic Boxes	10	3279
Impact of Fe and Cu	**Contamination** on the Minority Carrier Lifetime of Silicon Substrates	9	3014
The Effect of Ultrafine Pigment Color Filters on Cathode Ray Tube Brightness,	**Contrast**, and Color Purity	3	1083
ed and Oxidized Silicon Wafers Evaluated by an Infrared Differential Interference	**Contrast** Technique Surface and Interfacial Roughness of Polish	11	L254
Silicon	**Contribution** of Diffusion Interstitial Injection to Gettering of Metallic Impurities in	1	361
Profile and Morphology	**Control** during Etching of SiC Using Electron Cyclotron Resonant Plasmas	8	2820

		Issue	Page
Orientation	**Control** of Chemical Vapor Deposition TiN Film for Barrier Applications	8	2689
n of Silicon Surface	**Control** of Selective Tungsten Chemical Vapor Deposition by Monolayer Nitridatio	2	L38
Doping	**Control** of Surface Concentration of Boron or Phosphorus Employing Ion Shower	2	712
s Simulations of a Feedback	**Control** Scheme for an Inductively Coupled Plasma Source for Etching Application	4	1375
	Convective Diffusion to a Microdisk Sensor Subject to Uniform Shear Flow	1	197
m In Situ Spectroscopy in the Presence of	**Convective** Flow under Steady-State Conditions: A Unified Mathematical Formalis	11	3639
Photoelectrochemical Energy	**Conversion** at the Conjugated Polymer/Redox Polymer Electrolyte Interface	7	2310
e/Ferrocyanide Thermogalvanic Cell Power	**Conversion** Efficiency, Electrode Separation, and Overpotential in the Ferricyanid	8	2558
Capacitive Gas Sensor of Mixed Oxide	**CoO-In2O3** to Selectively Detect Nitrogen Monoxide	6	1908
	CoO2, The End Member of the LixCoO2 Solid Solution	3	1114
Electron Spectroscopy for Chemical Analysis of	**Coal** White Phosphors Coated with SiO2 Thin Film	1	302
Influence of	**Cooling** Condition during Crystal Growth of CZ-Si on Oxide Breakdown Property	10	3383
Kinetics and Mechanism of Electroless Deposition of	**Copper**	2	510
Morphology Evolution of Zinc-Iron Binary Alloys Electrodeposited with	**Copper** Additive	4	L75
educed Polycrystalline Tin Oxide Thin Films. Surface Analysis and Electroplated	**Copper** Adhesion Electrochemically R	6	2048
Effect of the Composition of Polypyrrole Substrate on the Electrodeposition of	**Copper** and Nickel	2	498
Shape Evolution of Electrodeposited	**Copper** Bumps	6	1880
Determination of Transport and Electrochemical Kinetic Parameters of Bare and	**Copper** Coated LaNi4.275n0.24 Electrodes in Alkaline Solution	3	834
Electrochemical Investigation of	**Copper** Contamination on Silicon Wafers from HF Solutions	9	2870
Investigation on	**Copper** Corrosion in Thin Films of Sulfuric Acid	1	139
d Oxides of SOI Substrates	**Copper** Decoration Followed by TEM Observation Identifying Defects in the Burie	7	2367
dies	**Copper** Deposition on HF Etched Silicon Surfaces: Morphological and Kinetic Stu	1	92
Atomic Force Microscopic Images Mechanistic Study of	**Copper** Deposition onto Gold Surfaces by Scaling and Spectral Analysis of In Situ	10	3122
High-Rate	**Copper** Dissolution in Hydrochloric Acid Solution	3	981
Growth and Resistivity Behavior of	**Copper** Film by Chemical Vapor Deposition	2	634
Reactive Ion Etching of	**Copper** Films in an SiCl4, N2, Cl2, and NH3 Mixture	12	4089
Type Inhibitors Anodic Behavior of	**Copper** in Iodide Solutions. Comparison with Chloride and Effect of Benzotriazole-	2	458
Cementation of	**Copper** on Aluminum in Alkaline Solutions	4	1300
Impact of the Electrochemical Properties of Silicon Wafer Surfaces on	**Copper** Outplating from HF Solutions	10	3323
A Search for the Mechanism of Direct	**Copper** Plating via Bridging Ligands	11	3821
face Preparation in Electrochemical Investigations of the Copper System in Dilute	**Copper** Sulfate Solutions Importance of Sur	12	3910
Titanium Nitridation on	**Copper** Surfaces	7	2349
Importance of Surface Preparation in Electrochemical Investigations of the	**Copper** System in Dilute Copper Sulfate Solutions	12	3910
Dissociative Mechanisms of Monosilane and Arsine on	**Copper(II)** Oxide	8	2654
Bismuth(III) and	**Copper(II)** Oxides as Catalysts for the Electro-oxidation of Organic Compounds	11	3435
An Atomic Force Microscopy Study on the Roughness of Silicon Wafers	**Correlated** with Direct Wafer Bonding	7	2366
rbons	**Correlation** Between Lithium Intercalation Capacity and Microstructure in Hard Ca	11	3482
Harmonic Analysis of	**Corroding** Systems Considering Diffusion Phenomena	12	4033
	Corrosion Behavior of Nickel-Iron Alloys in Molten Carbonate	1	88
	Corrosion Behavior of Chromium in Molten Carbonate	1	88
In Situ Atomic Force Microscopy Observations of the	**Corrosion** Behavior of Aluminum-Copper Alloys	8	2471
Surface-Enhanced Raman Spectroelectrochemical Studies of	**Corrosion** Films on Iron in Aqueous Carbonate Solution	7	2146
Inhibition Effects of Amines and Thiols on Iron	**Corrosion** in Anhydrous Methanol Solution Containing FeCl3	12	3866
An Experimental Study of Iron	**Corrosion** in Sulfuric Acid Solution Containing Inhibitors by Noise Measurement	11	3697
Investigation on Copper	**Corrosion** in Thin Films of Sulfuric Acid	1	139
Behavior of Dissolved Molybdenum during Localized	**Corrosion** of Austenitic Stainless Steel	12	L277
Atmospheric	**Corrosion** of Aluminum in the Presence of Ammonium Sulfate Particles	4	1175
	Corrosion of Tin Oxide at Anodic Potentials	2	442
Synergistic Effect of Hydrogen Sulfide and Nitrogen Dioxide on the Atmospheric	**Corrosion** of Zinc The	1	51
Galvanic	**Corrosion** of Zinc and Its Alloys	4	1472
Atmospheric	**Corrosion** of Zinc in the Presence of Ammonium Sulfate Particles	5	1539
Location of	**Corrosion** on Iron and Carbon Steel Surfaces with Crevices	8	L178
perature for Forming a Chromium-Rich Oxide on AISI 430 Stainless Steel and Its	**Corrosion** Resistance Determination of the Critical Tem	8	2493
A Quartz Crystal Microbalance Probe Developed for Outdoor In Situ Atmospheric	**Corrosivity** Monitoring	3	839
ture, and Electrochemical Properties of a New Lithium Iron Oxide, LiFeO2, with a	**Corrugated** Layer Structure Synthesis, Struc	8	2435
s Effect on the Electrical Properties Defect Generation during Epitaxial	**CoSi2** Formation Using Co/Ti Bilayer on Oxide Patterned (100)Si Substrate and It	3	L58
Kinetics and Mechanism of the Etching of	**CoSi2** in HF-Based Solutions	10	3245
	Countercation-Sensitive Electrochromism of Cobalt Hexacyanoferrate Films	1	L10
tics of Thermochargeable Galvanic Cells with an [Fe(CN)6]4-/[Fe(CN)6]3- Redox	**Couple** Charge and Discharge Characteris	4	1305
Reaction Cyclic Voltammetry of a TCNQ(OI-1) Solid-State Redox	**Couple**. Role of Nucleation and Nonideality for a Square Scheme Surface Redox	10	3039
Simulations of a Feedback Control Scheme for an Inductively	**Coupled** Plasma Source for Etching Applications	4	1375
aracterization and Residue Elimination of Hot Aluminum Etching in a Transformer	**Coupled** Plasma Etcher Ch	5	1753
Effects of Transmitted Electrons on Inductively	**Coupled** Plasma Etching of a Si Wafer Through an Al Mask	11	3752
The Dissipated Energy of Electrode Surfaces: Temperature Jumps from	**Coupled** Transport Processes	3	787
Nonlinear Iron Electrochemical Oscillator:	**Coupling** and Photo Effects	7	2288
ty Modeling Through the Use of Maximum-Likelihood Estimation of the Mean and	**Covariance** Surfaces Improved Within-Wafer Uniformi	11	3404
copy Transpassive Dissolution of	Cr and Sputter-Deposited Cr Oxides Studied by In Situ X-Ray Near-Edge Spectros	12	3997
The Spinel Phases LiMyMn2-yO4 (M = Co,	Cr, Ni) as the Cathode for Rechargeable Lithium Batteries	1	178
Transpassive Dissolution of Cr and Sputter-Deposited	Cr Oxides Studied by In Situ X-Ray Near-Edge Spectroscopy	12	3997
en Evolution Effects of Ni, Fe, Cu, and	Cr Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic Properties for Oxyg	5	1505
Electrocatalysis of Anodic Oxygen-Transfer Reactions: Oxidation of	Cr(III) to Cr(VI) at Bi(V)-Doped PbO2-Film Electrodes	7	2119
Electrocatalysis of Anodic Oxygen-Transfer Reactions: Oxidation of Cr(III) to	Cr(VI) at Bi(V)-Doped PbO2-Film Electrodes	7	2119
Films	**Creation** and Properties of Nitrogen Dangling Bond Defects in Silicon Nitride Thin	11	3688
Location of Corrosion on Iron and Carbon Steel Surfaces with	**Crevices**	8	L178
ducting Perovskites	**Critical** Analysis of Potential Step Data for Oxygen Transport in Electronically Con	11	3497
l	**Critical** Hydrogen Concentration for the Brittle Fracture of AISI 430 Stainless Stee	9	2736
teel and Its Corrosion Resistance Determination of the	**Critical** Temperature for Forming a Chromium-Rich Oxide on AISI 430 Stainless S	8	2493
xymethylene oligo-(oxy-ethylene)]/Lithium Metal Interface. Comparison of Linear,	**Cross** Linked, and Alkylated Electrolyte Films Study of the Poly[o	4	1292
Electric Field Dependence of the Electron Capture	**Cross** Section of Neutral Traps in SiO2	8	2687
Real-Time Mass Spectrometric Study of the Methanol	**Crossover** in a Direct Methanol Fuel Cell	4	1233
Effect of Methanol	**Crossover** in a Liquid-Feed Polymer-Electrolyte Direct Methanol Fuel Cell	8	2901
inetics and Mechanism of the Anodic Reaction on Graphite Anodes in Saturated	**Cryolite-Alumina** Melts An Impedance Study of the K	6	1840
Electrochemical Oxidation of Glucose on Single	**Crystal** and Polycrystalline Gold Surfaces in Phosphate Buffer	3	759
	Crystal Growth of gamma-Lithium Aluminate in Molten Li/K Carbonates	9	2776
Influence of Cooling Condition during	**Crystal** Growth of CZ-Si on Oxide Breakdown Property	10	3383
tal Cu2O Formation on Amorphous Carbon Electrode and Effect of Anions on the	**Crystal** Habit of Cu2O Particles Single-Crys	7	2105
es In Situ Quartz	**Crystal** Microbalance Studies of Nickel Hydrous Oxide Films in Alkaline Electrolyt	1	37
Studies of Metal Hydride Electrodes Using an Electrochemical Quartz	**Crystal** Microbalance	1	120
y Monitoring A Quartz	**Crystal** Microbalance Probe Developed for Outdoor In Situ Atmospheric Corrosivit	3	839
Laser Illumination Electrochemical Quartz	**Crystal** Microgravimetry Study of Zinc Electrode Behavior in a Neutral Solution by	6	1825
Response of the Electrochemical Quartz	**Crystal** Microbalance for Gold Electrodes in the Double-Layer Region	7	2240
Photoluminescence Measurements of Low-Level Oxygen in Thin Silicon	**Crystal** Using a C-O Complex Formed Through Carbon Implantation	9	2878
Electrochemical Characteristics of	**Crystalline** and Amorphous SnS2 in Lithium Cells	9	2647
quid Acids	**Crystallite** Size Effects of Carbon-Supported Platinum on Oxygen Reduction in Li	1	18
Top-Gate Polysilicon Thin-Film Transistors Fabricated on Fluorine-Implanted and	**Crystallized** Amorphous Silicon Films Characteristics of	10	3302
nsfer and Mass Transport Modeling of the Sublimation Growth of Silicon Carbide	**Crystals** Thermodynamic Heat Tra	11	3727
tacking Faults on the Axial Temperature Gradient of Growing Czochralski Silicon	**Crystals** The Dependance of Ring-Like Distributed S	5	1648
Upper Yield Stress of Si	**Crystals** at High Temperatures	8	L176
Luminescence of	**Cs2NbOF5**: Vibrational Structure in [NbOF5]2- Luminescence	10	L234
or Oxygen Evolution Effects of Ni, Fe,	Cu, and Cr Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic Properties f	5	1505
Impact of Fe and	Cu Contamination on the Minority Carrier Lifetime of Silicon Substrates	9	3014
ential Reversal Technique Topographic Changes of Polycrystalline Ag and	Cu Electrodes in Acid Aqueous Solutions Resulting from a Prolonged Application	7	2294

		Issue	Page
Low-Temperature Out-Diffusion of	**Cu** from Silicon Wafers	6	2025
Impurities in Chemical Bath Deposited CdS Films for	**Cu**(In,Ga)Se2 Solar Cells and Their Stability	8	2662
Electromigration Drift Velocity in Al-Alloy and	**Cu**-Alloy Lines	3	1001
Electrodeposition of In-Se, Cu-Se, and	**Cu**-In-Se Thin Films	3	854
Microstructure of Electrodeposited	**Cu**-Ni Binary Alloy Films	6	1978
Electrodeposition of In-Se,	**Cu**-Se, and Cu-In-Se Thin Films	3	854
Electrodeposition of	**Cu**/Fe20Ni80 Magnetic Multilayers	5	L98
Dielectric Degradation of	**Cu**/SiO2/Si Structure during Thermal Annealing	3	990
stal Habit of Cu2O Particles Single-Crystal	**Cu2O** Formation on Amorphous Carbon Electrode and Effect of Anions on the Cry	7	2105
tion on Amorphous Carbon Electrode and Effect of Anions on the Crystal Habit of	**Cu2O** Particles Single-Crystal Cu2O Forma	7	2105
ation Between Physical Properties and Deposition Conditions of Electrodeposited	**CuInSe2** Rel	7	2173
Improved Selenization Procedure to Obtain	**CuInSe2** Thin Films from Sequentially Electrodeposited Precursors	2	493
Electrolysis of Water in	**CuO**/ZnO Heterocontact Humidity Sensor	4	L89
Toward a Reliable Value for the Diffusion Coefficient of	**Cupric** Ion in Aqueous Solution	4	1248
An Organosulfur Polymer Cathode with a High	**Current** Capability for Rechargeable Batteries	10	3152
Microstructure-Property Relations of Solid Oxide Fuel Cell Cathodes and	**Current** Collectors. Cathodic Polarization and Ohmic Resistance	2	530
rode Three-Dimensional Calculation of	**Current** Distribution in Electrodeposition on Patterned Cathode with Auxiliary Elect	2	480
Workpiece, Pattern, and Feature Scale	**Current** Distributions	2	486
	Current Distribution and Current Efficiency in Pulsed Current Plating of Nickel	9	2770
Modeling of Plated Through-Hole Processes. I.	**Current** Distribution	10	3139
Modeling of Plated Through-Hole Processes. II. Effect of Leveling Agents on	**Current** Distribution	10	3144
Current Distribution and	**Current** Efficiency in Pulsed Current Plating of Nickel	9	2770
Electron Traps and Excess	**Current** Induced by Hot-Hole Injection into Thin SiO2 Films	10	3377
emical Vapor Deposition Leakage	**Current** Mechanism of Amorphous and Polycrystalline Ta2O5 Films Grown by Ch	3	977
Low Energy Electron-Enhanced Etching of GaN/Si in Hydrogen Direct	**Current** Plasma	11	L251
Current Distribution and Current Efficiency in Pulsed	**Current** Plating of Nickel	9	2770
odes	**Current** Responses to an Impulse Laser Light Illumination in Semiconductor Electr	7	2220
y Barrier Impedance and	**Current-Voltage** Behavior of a Semiconductor/Liquid Junction with a Small Energ	5	1598
e-Layer mc-Si/a-SiCx Emitter in a Silicon Heterojunction Bipolar Transistor with a	**Cutoff** Frequency of 47 GHz Doubl	6	1949
Electrochemical Deposition of Silver from a Low	**Cyanide** Concentration Bath	9	2799
Determination of Mixtures of Polysulfides by	**Cyclic** Voltammetry	10	L223
n and Nonideality for a Square Scheme Surface Redox Reaction	**Cyclic** Voltammetry of a TCNQ(O/-1) Solid-State Redox Couple. Role of Nucleatio	10	3039
Probe Beam Deflection Combined with	**Cyclic** Voltammetry Studies of C60-Modified Electrode Film	12	3874
Electron	**Cyclotron** Resonance Plasma Etching of Native TiO2 on TiN	1	264
pid Thermal Annealing Behavior of Amorphous SiC Layers Deposited by Electron	**Cyclotron** Resonance Plasma Ra	1	271
Effects of Annealing on Damage in AlGaAs Induced by Electron	**Cyclotron** Resonance SF6/CHF3 Plasma Etching	3	1151
Profile and Morphology Control during Etching of SiC Using Electron	**Cyclotron** Resonant Plasmas	8	2620
A WSixN Diffusion Barrier Formed with Electron	**Cyclotron** Resonance Nitrogen Plasma	11	3747
Influence of Cooling Condition during Crystal Growth of	**CZ-Si** on Oxide Breakdown Property	10	3383
The Direct Observation of Grown-in Laser Scattering Tomography Defects in	**Czochralski** Silicon	10	L243
g-Like Distributed Stacking Faults on the Axial Temperature Gradient of Growing	**Czochralski** Silicon Crystals The Dependence of Rin	5	1648
Asymmetric Distribution of Oxygen Concentration in the Si Melt of a	**Czochralski** System	2	722
Computer Simulation of Oxygen Precipitation in	**Czochralski-Grown** Silicon during HI-LO-HI Anneals	3	995

— D —

Optimization of Low	**Damage**, High Resolution Etch Process for SiNx in an ECR Reactor	1	288
Ar Plasma-Induced	**Damage** in AlGaAs	9	L219
Etching Effects of Annealing on	**Damage** in AlGaAs Induced by Electron Cyclotron Resonance SF6/CHF3 Plasma	3	1151
The Detection and Analysis of Electrochemical	**Damage** in Bismaleimide/Graphite Fiber Composites	2	449
Transmission Electron Microscopy and Spectroscopic Ellipsometry Studies of	**Damage** Layer Induced by Large Tilt Angle Ion Implantation	8	2636
Repair of Plasma Etch Related Gate Perimeter	**Damage** Using Low Temperature Oxidation	2	628
Creation and Properties of Nitrogen	**Dangling** Bond Defects in Silicon Nitride Thin Films	11	3685
Analysis of Electrochemical Noise	**Data** for Polymer Coated Steel in the Time and Frequency Domains	12	L286
Critical Analysis of Potential Step	**Data** for Oxygen Transport in Electronically Conducting Perovskites	11	3497
Comparison of Modeling Predictions with Experimental	**Data** from Plastic Lithium-Ion Cells	6	1890
Performance	**Data** of a Proton Exchange Membrane Fuel Cell Using H2/CO as Fuel Gas	12	3838
The Effect of Mechanical Processing Procedures on the	**Decomposition** Rate of Silver Oxide Cathode Material	2	418
nvestigation of Defect Concentration in Implanted Silicon Substrates by Hydrogen	**Decoration**	12	4101
s of SOI Substrates Copper	**Decoration** Followed by TEM Observation Identifying Defects in the Buried Oxide	7	2357
Thermally Stimulated	**Deep-Level** Impedance Spectroscopy. Application to an n-GaAs Schottky Diode	12	4066
Optically Stimulated	**Deep-Level** Impedance Spectroscopy. Application to an n-GaAs Schottky Diode	12	4074
Investigation of	**Defect** Concentration in Implanted Silicon Substrates by Hydrogen Decoration	12	4101
Patterned (100)Si Substrate and Its Effect on the Electrical Properties	**Defect** Generation during Epitaxial CoSi2 Formation Using Co/Ti Bilayer on Oxide	3	L56
Electrical Transport Properties and	**Defect** Structure of SrFeCo0.5Ox	5	1736
lid Oxide Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Transport Properties and	**Defect** Structure A New Candidate for the So	9	2863
ochemical Behavior of Thin Anodic Oxide Films on Zircaloy-4. Role of the Mobile	**Defects** Electr	12	3902
Conducting and Charge-Trapping	**Defects** in Buried Oxide Layers of SIMOX Structures	1	347
The Direct Observation of Grown-in Laser Scattering Tomography	**Defects** in Czochralski Silicon	10	L243
Creation and Properties of Nitrogen Dangling Bond	**Defects** in Silicon Nitride Thin Films	11	3685
Highly Sensitive Etchants for Delineation of	**Defects** in Single- and Polycrystalline Silicon Materials	12	4079
Copper Decoration Followed by TEM Observation Identifying	**Defects** in the Buried Oxides of SOI Substrates	7	2357
Nonparticulate Origins of Light Point	**Defects** on Polished Silicon Wafers	6	2068
Film Probe Beam	**Deflection** Combined with Cyclic Voltammetry Studies of C60-Modified Electrode	12	3874
erfaces Infrared Photothermal	**Deflection** Spectroscopy: A New Probe for the Investigation of Electrochemical Int	5	1514
	Deformation Mechanism of Porous Nickel Oxide in Molten Li/K Carbonates	8	2481
Characterization of Ni-YSZ Anode	**Degradation** for Substrate-Type Solid Oxide Fuel Cells	5	1521
Dielectric	**Degradation** of Cu/SiO2/Si Structure during Thermal Annealing	3	990
Species over Solid Oxide Fuel Cell Interconnect Materials and Ti Potential for	**Degradation** Processes Chromium Vapor	11	3642
	Dehydroxylation of LiAlCl4.xSO2 Electrolytes Using Chlorine	11	3585
Capacitive	**Deionization** of NaCl and NaNO3 Solutions with Carbon Aerogel Electrodes	1	159
Formation of Thin Silicon on Insulator Silicon Layers	**Delaminations** of Thin Layers by High Dose Hydrogen Ion Implantation in Silicon.	8	L186
Highly Sensitive Etchants for	**Delineation** of Defects in Single- and Polycrystalline Silicon Materials	12	4079
Local Monitoring of Diamond Nucleation	**Density**	3	1061
	Density of States Calculations of Small Diameter Single Graphene Sheets	11	L262
Photoelectrochemical Doping of TiO2 Particles and the Effect of Charge Carrier	**Density** on the Photocatalytic Activity of Microporous Semiconductor Electrode Fil	11	3712
High Ion	**Density** Plasma Etching of InGaP, AlInP, and AlGaP in CH4/H2/Ar	3	1093
Etching of Tantalum in Fluorine-Containing High	**Density** Plasmas	10	3268
Thickness	**Dependence** of Oxide Wearout	11	3736
radient of Growing Czochralski Silicon Crystals The	**Dependence** of Ring-Like Distributed Stacking Faults on the Axial Temperature G	5	1648
Electric Field	**Dependence** of the Electron Capture Cross Section of Neutral Traps in SiO2	8	2687
Gap Fill and Film Reflow Capability of Subatmospheric Chemical Vapor	**Deposited** Borophosphosilicate Glass	4	1414
ation of Shallow Junctions during Rapid Thermal Processing from Electron-Beam	**Deposited** Boron Sources Form	9	2981
Rapid Thermal Annealing Behavior of Amorphous SiC Layers	**Deposited** by Electron Cyclotron Resonance Plasma	1	271
Impurities in Chemical Bath	**Deposited** CdS Films for Cu(In,Ga)Se2 Solar Cells and Their Stability	8	2662
of High Oxygen: Tetraethylorthosilicate Ratio Plasma-Enhanced Chemical Vapor	**Deposited** Films Characterization	3	1079
Interface with Substrates of High-Phosphorus Electroless NiP and NiCuP	**Deposited** from Nonammonia Alkaline Solutions	9	2804
Stress in Liquid-Phase	**Deposited** Oxide Films	8	2658
ctric Constant and Stability of Fluorine-Doped Plasma Enhanced Chemical Vapor	**Deposited** SiO2 Thin Films Diele	6	2015
ctron Spectroscopy Element Profiles and Interface with Substrates of Electroless	**Deposited** Ternary Alloys Auger Ele	11	3692
Electrochemistry of Chemical Vapor	**Deposited** Tungsten Films with Relevance to Chemical Mechanical Polishing	12	4095
A Novel Seed Layer Scheme to Protect Catalytic Surfaces for Electroless	**Deposition**	11	3512

		Issue	Page
Growth and Resistivity Behavior of Copper Film by Chemical Vapor	**Deposition**	2	624
ned-Orientation Growth of Titanium Silicide in Plasma Enhanced Chemical Vapor	**Deposition** Cause of Alig	11	3778
anism of Boron Incorporation during Silicon Epitaxy by Means of Chemical Vapor	**Deposition** On The Mech	2	634
High Aspect Ratio Microtunnel Technique to Empirically Model Electroless	**Deposition**	4	L78
On the Role of Chlorine in Selective Silicon Epitaxy by Chemical Vapor	**Deposition**	10	3290
Deposition of Silicon Dioxide Films by Ion-Assisted Plasma Enhanced Chemical	**Deposition** Room Temperature	4	1443
Proton Insertion into Ruthenium Oxide Film Prepared by Pulsed Laser	**Deposition**	3	1068
lectrochromic Properties of Cobalt Oxide Thin Films Prepared by Chemical Vapor	**Deposition** E	4	1383
Ohmic Contacts Formed on n-GaSb by Electrochemical	**Deposition**	3	1014
act of Gas-Phase Additives C2H4, C2H6, and C2H2 on SiH4/O2 Chemical Vapor	**deposition** The Eff	4	1355
esoscopic Scale Modeling of Microloading during Low Pressure Chemical Vapor	**Deposition** M	8	2824
before Low-Temperature Epitaxial Growth by Ultrahigh Vacuum/Chemical Vapor	**Deposition** H2 Cleaning of Silicon Wafers	7	2361
anism of Amorphous and Polycrystalline Ta2O5 Films Grown by Chemical Vapor	**Deposition** Leakage Current Mech	3	977
Electrochromic Properties of Iron Oxide Thin Films Prepared by Chemical Vapor	**Deposition**	5	1678
reatment Process for Palladium Chemisorption onto Polymers before Electroless	**Deposition** Plasma T	2	472
adienyl Manganese as a Dopant Source for ZnS in Metallorganic Chemical Vapor	**Deposition** Use of di-Pi-cyclopent	12	4116
emical Behavior of LiMn2O4 and LiCoO2 Thin Films Produced with Pulsed Laser	**Deposition** Electroch	6	1821
lorthosilicate and Fluorotriethoxysilane at Room Temperature by Chemical Vapor	**Deposition** Characteristics of SiOF Films Formed Using Tetraethy	2	707
y Means of the Quartz-Crystal Microbalance Study of	**Deposition** and Dissolution Processes of Lithium in Carbonate-Based Solutions b	8	2517
Mathematical Modeling of Electroless Nickel	**Deposition** at Steady State Using Rotating Disk Electrode	2	505
Control of Selective Tungsten Chemical Vapor	**Deposition** by Monolayer Nitridation of Silicon Surface	2	L38
Relation Between Physical Properties and	**Deposition** Conditions of Electrodeposited CuInSe2	7	2173
Chromium Oxide Thin Films Prepared by Chemical Vapor	**Deposition** from Chromium Acetylacetonate and Chromium Hexacarbonyl	6	1958
ation Kinetics of Diamond on Carbide-Forming Substrates during Chemical Vapor	**Deposition**. I. Transient Nucleation Stage Nucle	3	1104
Effects of RF Power on Plasma Phase Reactions and Film Structure in	**Deposition** of a-C:H by Styrene/Argon Discharge	4	1481
Kinetics and Mechanism of Electroless	**Deposition** of Copper	2	510
e	**Deposition** of Diamond from a Plasma Jet with Dichlorobenzene as Carbon Sourc	6	2063
A Model for Galvanostatic	**Deposition** of Nickel Hydroxide	7	2319
Electrochemical	**Deposition** of Pd, Ti, and Ge for Applications in GaAs Technology	4	L73
Thermal Model Validation for Rapid Thermal Chemical Vapor	**Deposition** of Polysilicon	1	374
Adsorption of Chlorine on TiSi2: Application to Etching and	**Deposition** of Silicide Films	1	266
Low Pressure Chemical Vapor	**Deposition** of Si1-xGex Films Using Si2H6 and GeH4 Source Gases	1	363
Deposition Room Temperature	**Deposition** of Silicon Dioxide Films by Ion-Assisted Plasma Enhanced Chemical	4	1443
In Situ Optical Analysis of the Gas Phase during the	**Deposition** of Silicon Carbide from Methyltrichlorosilane	5	1654
Photoassisted Liquid-Phase	**Deposition** of Silicon Dioxide	6	2044
Remote Plasma Enhanced Chemical Vapor	**Deposition** of Silicon Films at Low Temperatures from Si2H6-H2-SiF4	8	2640
Electrochemical	**Deposition** of Silver from a Low Cyanide Concentration Bath	9	2799
	Deposition of Tin Oxide into Porous Silicon by Atomic Layer Epitaxy	2	683
Atmospheric Pressure Chemical Vapor	**Deposition** of Titanium Nitride from tetrakis(Diethylamido) Titanium and Ammonia	2	738
Chemical Vapor	**Deposition** of Tungsten Schottky Diodes to 6H-SiC	5	1662
A Predictive Kinetic Model for the Chemical Vapor	**Deposition** of TiSi2	5	1736
Film Evolution on Silicon Dioxide Using Disilane. Rapid Thermal Chemical Vapor	**Deposition** of Very Smooth Silicon at High Deposition Rates Silicon Nucle	2	849
F Electrochemical	**Deposition** of Very Smooth Lithium Using Nonaqueous Electrolytes Containing H	7	2187
Electrophoretic	**Deposition** of ZnO:Zn Phosphor for Field Emission Display Applications	12	3923
Copper	**Deposition** on HF Etched Silicon Surfaces: Morphological and Kinetic Studies	1	92
Selective Electroless Nickel	**Deposition** on Patterned Phosphonate and Carboxylate Polymer Films	2	691
Force Microscopic Images Mechanistic Study of Copper	**Deposition** onto Gold Surfaces by Scaling and Spectral Analysis of In Situ Atomic	10	3122
The Application of Atomic Force Microscopy for the Study of Li	**Deposition** Processes	11	3525
silane. Rapid Thermal Chemical Vapor Deposition of Very Smooth Silicon at High	**Deposition** Rates Silicon Nucleation and Film Evolution on Silicon Dioxide	2	849
Particle Size Distribution in a Low Pressure SiH4:O2:He Chemical Vapor	**Deposition** Reactor. Experimental and Numerical Results	10	3397
lectrics An SiO2 Film	**Deposition** Technology Using Tetraethylorthosilicate and Ozone for Intermetal Die	5	1769
Process-Property Relationships in Si1-xGex Chemical Vapor	**Deposition**. Thermodynamic and Kinetic Studies	5	1719
Orientation Control of Chemical Vapor	**Deposition** TiN Film for Barrier Applications	6	2089
Stability of TiN Films Prepared by Chemical Vapor	**Deposition** Using Tetrakis-dimethylamino Titanium	9	L188
ilms on Patterned Substrates Prepared by Atmospheric-Pressure Chemical Vapor	**Deposition** Using Tetraethoxysilane and Ozone Characteristics of Silicon	5	1715
A Study on Low Dielectric Material	**Deposition** Using a Helicon Plasma Source	9	2990
trided Silicon Dioxide Films Using Electron-Cyclotron Resonance Chemical Vapor	**Deposition** with Nitrous Oxide and Silane Formation of High-Quality Ni	5	1681
Ultraviolet	**Depth** Lithography and Galvanoforming for Micromachining	1	237
Dopant	**Depth** Profiling by Anodic Sectioning Using 0.1 M HCl Electrolyte	11	L256
Structural and Spectroelectrochemical Investigations of Sol-Gel	**Derived** Electrochromic Spinel Co3O4 Films	5	1532
A New Humidity Sensor Using the Composite Film	**Derived** from Poly(o-phenylenediamine) and Poly(vinyl alcohol)	9	2925
Characterization of Solution	**Derived** RuO2 Electrodes for Pb(Zr,Ti)O3 Microcapacitors	9	3008
The Overpotential as a Surface Singularity	**Described** by Nonequilibrium Thermodynamics	3	779
Induced Codeposition. II. A Mathematical Model	**Describing** the Electrodeposition of Ni-Mo Alloys	3	883
namic Discharge Model for Applications in Technology-Oriented Computer-Aided	**Design** A Reduced-Fluid Dy	6	1940
nd 4H SiC	**Design** and Performance of a New Reactor for Vapor Phase Epitaxy of 3C, 6H, a	9	2910
Use of a Hydrogen Anode for Nitrate Waste	**Destruction**	10	3094
Photolytic and Photocatalytic	**Destruction** of Formaldehyde in Aqueous Media	5	1842
Capacitive Gas Sensor of Mixed Oxide CoO-In2O3 to Selectively	**Detect** Nitrogen Monoxide	6	1908
r Composites The	**Detection** and Analysis of Electrochemical Damage in Bismaleimide/Graphite Fibe	2	449
Selective CO	**Detection** by Using Indium Oxide-Based Semiconductor Gas Sensor	2	L36
s Containing Iodide Ions Piezoelectric	**Detection** of Changes in Surface Energy of Gold Electrode in Perchlorate Solution	3	899
Sodium Ion Conductor Based Sensor Attached with NaNO2 for Amperometric	**Detection** of NO2	10	L241
A New Potentiometric Sensor for the	**Detection** of Trace Metallic Contaminants in Hydrofluoric Acid	10	L235
Factors Inducing	**Deterioration** of InBO3:Tb by Electron Bombardment	5	1696
Amperometric Gas-Phase Sensor for the	**Determination** of Ammonia in a Solid-State Cell Prepared by a Sol-Gel Process	6	L126
ctive Electrodes by Conditioning with a Discriminated Ion	**Determination** of Improved Selectivity Coefficients of Polymer Membrane Ion-Sele	4	L83
agnetic Resonance	**Determination** of Lithium Ion Transference Numbers by Electrophoretic Nuclear M	6	L107
	Determination of Mixtures of Polysulfides by Cyclic Voltammetry	10	L223
photometry Methodology for the Certification of Reference Specimens for Electrochemical	**Determination** of Oxygen Concentration in Semiconductor Silicon by Infrared Spe	1	258
	Determination of Solid-State Interdiffusion in Nickel-Platinum Alloys	11	3662
Effect of Interfacial Resistance on	**Determination** of Transport Properties of Mixed-Conducting Electrolytes	6	L109
Copper Coated LaNi4.27Sn0.24 Electrodes in Alkaline Solution	**Determination** of Transport and Electrochemical Kinetic Parameters of Bare and	3	834
AISI 430 Stainless Steel and Its Corrosion Resistance	**Determination** of the Critical Temperature for Forming a Chromium-Rich Oxide on	8	2493
Linear Algebra Used to	**Determine** Independent Half-Cell Equations	6	1781
A Quartz Crystal Microbalance Probe	**Developed** for Outdoor In Situ Atmospheric Corrosivity Monitoring	3	839
y Bundle Electrode and Its Characteristics A Study on	**Development** of an Electrolysis System with Vertically Circulating Mercury Capillar	9	2717
	Development of Surface Impurity Segregation during Dissolution of Aluminum	1	83
Reactive Ion Etching of 6H-SiC in SF6/O2 and CF4/O2 with N2 Additive for	**Device** Fabrication	3	1037
Site-Saturation Model for the Optical Efficiency of Tungsten Oxide-Based	**Devices**	9	L188
High-Resolution Measurement of Resistivity Variations in Power	**Devices** by the Photoscanning Method	12	4105
harge Transport and Chemical-Potential Variation in Single-Layer and Multilayer	**Devices** of Different Mixed-Conducting Oxides Analytic Solution for C	10	3214
Reliability Evaluation of Manufacturing Processes for Bipolar and MOS	**Devices** on Silicon-on-Diamond Materials	4	1326
Chemical Vapor Deposition Use of	**di-Pi-cyclopentadienyl** Manganese as a Dopant Source for ZnS in Metallorganic	12	4116
FTIR Spectroscopy of Metal Oxide Insertion Electrodes: A New	**Diagnostic** Tool for Analysis of Capacity Fading in Secondary Li/LiMn2O4 Cells	6	L136
The High Temperature Phase	**Diagram** of Li1+xMn2-xO4 and Its Implications	6	1783
indows for Wet Chemical Processing of Silicon and Silicon Dioxide: Potential-pH	**Diagrams** for the Si-F-H2O System Dissolution W	2	749
Density of States Calculations of Small	**Diameter** Single Graphene Sheets	11	L262
a Double Mask System to Prevent Ti Diffusion from a Ti/Pt/Au Ohmic Contact on	**Diamond** The Use of	7	2392
Hydrogen and Oxygen Evolution on Boron-Doped	**Diamond** Electrodes	6	L133
Electrochemical Behavior of Boron-Doped	**Diamond** Electrodes	10	L238
Deposition of	**Diamond** from a Plasma Jet with Dichlorobenzene as Carbon Source	6	2063

		Issue	Page
Local Monitoring of	**Diamond Nucleation Density**	3	1061
ansient Nucleation Stage Nucleation Kinetics of	**Diamond on Carbide-Forming Substrates during Chemical Vapor Deposition. I. Tr**	3	1104
Freestanding	**Diamond Thin Films Grown on Glassy Carbon Substrates**	7	L150
Shallow Angle X-Ray Diffraction from As-Deposited	**Diamond Thin Films**	3	1033
A Reverse Monte Carlo Modeling Study of	**Diamond-Like Carbon**	1	292
A New Preparation of Alpha-Oxo-Thioesters by Electro-oxidation of	**Diaryl Disulfides in the Presence of Alkynes**	12	4027
Electrodeposition of Fe-C Alloys from Baths Containing	**Dicarboxylic Acids with a Linear Alkyl Chain**	8	2584
Deposition of Diamond from a Plasma Jet with	**Dichlorobenzene as Carbon Source**	6	2063
On Electron Conduction and Trapping in SIMOX	**Dielectric**	10	3354
Patterning of Parylene-n by Reactive Ion Etching for Application as an Interlayer	**Dielectric** Fine-line	6	1974
Identification of MOS Gate	**Dielectric Breakdown Spot Using High Selectivity C1 Radical Etching Technique**	8	2691
Stabilizing	**Dielectric Constants of Fluorine-Doped SiO2 Films by N2O-Plasma Annealing**	1	381
apor Deposited SiO2 Thin Films	**Dielectric Constant and Stability of Fluorine-Doped Plasma Enhanced Chemical V**	6	2015
	Dielectric Degradation of Cu/SiO2/Si Structure during Thermal Annealing	3	990
A Study on Low	**Dielectric Material Deposition Using a Helicon Plasma Source**	9	2990
A 0.25 um MOSFET Technology Using In Situ Rapid Thermal Gate	**Dielectrics**	2	744
ilm Deposition Technology Using Tetraethylorthosilicate and Ozone for Intermetal	**Dielectrics** An SiO2 F	5	1769
erties of Fluorinated Silicon Oxide Films Using Fluorotriethoxysilane for Interlayer	**Dielectrics in Multilevel Interconnections** Prop	3	1084
Interpretation of the Power Response of a Fuel Cell with a Quadratic Logistic	**Differential Equation**	6	L113
cial Roughness of Polished and Oxidized Silicon Wafers Evaluated by an Infrared	**Differential Interference Contrast Technique** Surface and Interfa	11	L254
	Differential Measurement of Nonlinear Electrical Relaxation of Lithium Batteries	10	3148
Shallow Angle X-Ray	**Diffraction from As-Deposited Diamond Thin Films**	3	1033
Barrier Effect of TaSiN Layer for Oxygen	**Diffusion**	11	L264
A WSixN	**Diffusion Barrier Formed with Electron Cyclotron Resonance Nitrogen Plasma**	11	3747
A Novel Electrochemical Method for Measuring Salt	**Diffusion Coefficients and Ion Transference Numbers**	2	L44
xC8 Thin Films A Transient Method for Measuring	**Diffusion Coefficients of Thin Film Battery Electrodes. Results for LiyCoO2 and Li**	6	L129
Toward a Reliable Value for the	**Diffusion Coefficient of Cupric Ion in Aqueous Solution**	4	1248
Chemical	**Diffusion Coefficient of Lithium in Carbon Fiber**	8	2606
Fluorine	**Diffusion from Fluorosilicate Glass**	7	L156
The Use of a Double Mask System to Prevent Ti	**Diffusion from a Ti/Pt/Au Ohmic Contact on Diamond**	7	2382
Oxygen Tracer	**Diffusion in Polycrystalline In2O3**	8	2686
Contribution of	**Diffusion Interstitial Injection to Gettering of Metallic Impurities in Silicon**	1	381
Interpretation of Carrier Recombination Lifetime and	**Diffusion Length Measurements in Silicon**	4	1399
	Diffusion of Oxygen in Silica Glass	6	1992
Nitridation-Retarded	**Diffusion of Phosphorus in <100> Silicon**	1	352
Harmonic Analysis of Corroding Systems Considering	**Diffusion Phenomena**	12	4033
Convective	**Diffusion to a Microdisk Sensor Subject to Uniform Shear Flow**	1	197
d Zirconia Interface in Oxygen Atmospheres A Chemical	**Diffusion-Controlled Electrode Reaction at the Compact La1-xSrxMnO3/Stabilize**	10	3065
Variable	**Diffusivity in Intercalation Materials. A Theoretical Approach**	4	1287
Pyrolysis Mechanism of Silanes,	**Difluorosilane, and Their Mixtures**	6	1996
Wet Chemical	**Digital Etching of GaAs at Room Temperature**	11	3652
of Surface Preparation in Electrochemical Investigations of the Copper System in	**Dilute Copper Sulfate Solutions** Importance	12	3910
Barrier Height Lowering and Instability of Gate Oxides Due to	**Dilute Hydrofluoric Acid Pretreatment**	3	973
p- and n-Type Silicon Electrochemical Properties in	**Dilute Hydrofluoric Acid Solutions**	11	3832
	Dimensional Instability of Doped Lanthanum Chromite	9	2919
Salts for Lithium Battery Electrolytes. II. Conductivity of Lithium Organoborates in	**Dimethoxyethane and Propylene Carbonate** A New Class of Electrochemi	11	3585
iiodooctane and of 1,10-Dibromo- and 1,10-Diiododecane at Carbon Cathodes in	**Dimethylformamide** Electrochemical Reduction of 1,8-Dibromo- and 1,8-D	12	3833
ulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs Schottky	**Diode** Optically Stim	12	4074
ulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs Schottky	**Diode** Thermally Stim	12	4066
Fabrication of a Porous Silicon	**Diode Possessing Distinct Red and Orange Electroluminescent Regions**	2	L42
Thermal Stability of W-Contacted Junction	**Diodes**	6	2053
Chemical Vapor Deposition of Tungsten Schottky	**Diodes to 6H-SiC**	5	1662
Photoassisted Liquid-Phase Deposition of Silicon	**Dioxide**	6	2044
Galvanic Interaction Between Manganese	**Dioxide and Pyrite**	12	3987
A New Vanadium	**Dioxide Cathode**	9	L193
Sol-Gel-Derived Thin-Film Manganese	**Dioxide Cathodes**	5	1629
ry Electrochemical Processes Taking Place during Oxygen Evolution on the Lead	**Dioxide Electrode** Mechanism of the Elementa	11	3816
Room Temperature Deposition of Silicon	**Dioxide Films by Ion-Assisted Plasma Enhanced Chemical Deposition**	4	1443
th Nitrous Oxide and Silane Formation of High-Quality Nitrided Silicon	**Dioxide Films Using Electron-Cyclotron Resonance Chemical Vapor Deposition wi**	8	1681
r Deposition Using Tetraethoxysilane and Ozone Characteristics of Silicon	**Dioxide Films on Patterned Substrates Prepared by Atmospheric-Pressure Chemi**	5	1715
Etching Kinetics of Silicon	**Dioxide in Aqueous Fluoride Solutions. A Surface Complexation Model**	4	1339
The Synergistic Effect of Hydrogen Sulfide and Nitrogen	**Dioxide on the Atmospheric Corrosion of Zinc**	1	81
Dissolution Windows for Wet Chemical Processing of Silicon and Silicon	**Dioxide: Potential-pH Diagrams for the Si-F-H2O System**	2	749
Construction and Working Mechanism of Sulfur	**Dioxide Sensor Utilizing Stabilized Zirconia and Metal Sulfate**	2	609
Influence of SC-1/SC-2 Cleaning on Wafer-Bonded Silicon	**Dioxide Structures**	11	3722
ical Pretreatment on Adsorption of Tungsten Hexafluoride on Silicon and Silicon	**Dioxide Studied by X-Ray Photoelectron Spectroscopy** Effects of Plasma E	11	3870
Fluorine-Doped Tin	**Dioxide Thin Films Prepared by Radio-Frequency Magnetron Sputtering**	1	283
Cathodic Electrodeposition of Nanocrystalline Titanium	**Dioxide Thin Films**	5	1547
at High Deposition Rates Silicon Nucleation and Film Evolution on Silicon	**Dioxide Using Disilane. Rapid Thermal Chemical Vapor Deposition of Very Smoot**	2	649
The Reaction of Clean Li Surfaces with Small Molecules in Ultrahigh Vacuum. I.	**Dioxygen**	2	422
A Search for the Mechanism of	**Direct Copper Plating via Bridging Ligands**	11	3521
Low Energy Electron-Enhanced Etching of GaN/Si in Hydrogen	**Direct Current Plasma**	11	L251
High Performance	**Direct Methanol Polymer Electrolyte Fuel Cells**	1	L12
In Situ FTIR-Diffuse Reflection Spectroscopy of the Anode Surface in a	**Direct Methanol/Oxygen Fuel Cell**	2	L21
Real-Time Mass Spectrometric Study of the Methanol Crossover in a	**Direct Methanol Fuel Cell**	4	1233
Effect of Methanol Crossover in a Liquid-Feed Polymer-Electrolyte	**Direct Methanol Fuel Cell**	8	2601
In Situ Fourier Transform Infrared-Diffuse Reflection Spectroscopy of	**Direct Methanol Fuel Cell Anodes and Cathodes**	10	3053
ionality	**Direct Methanol Fuel Cell Cathodes with Sulfur and Nitrogen-Based Carbon Funct**	10	3073
Analysis of the Electrochemical Characteristics of a	**Diract Methanol Fuel Cell Based on a Pt-Ru/C Anode Catalyst**	12	3950
ski Silicon The	**Direct Observation of Grown-in Laser Scattering Tomography Defects in Czochral**	10	L243
mic Force Microscopy Study on the Roughness of Silicon Wafers Correlated with	**Direct Wafer Bonding** An Alo	7	2365
A Mathematical Model for a Thick Porous Metal-Hydride Electrode in	**Discharge**	12	3972
ma Phase Reactions and Film Structure in Deposition of a-C:H by Styrene/Argon	**Discharge** Effects of RF Power on Plas	4	1451
4-/[Fe(CN)6]3- Redox Couple Charge and	**Discharge Characteristics of Thermochargeable Galvanic Cells with an [Fe(CN)6]**	4	1305
A Reduced-Fluid Dynamic	**Discharge Model for Applications in Technology-Oriented Computer-Aided Design**	6	1940
oefficients of Polymer Membrane Ion-Selective Electrodes by Conditioning with a	**Discriminated Ion** Determination of Improved Selectivity C	4	L83
n Microscale	**Dishing Effect in a Chemical Mechanical Planarization Process for Trench Isolatio**	12	L281
ition Rates Silicon Nucleation and Film Evolution on Silicon Dioxide Using	**Disilane. Rapid Thermal Chemical Vapor Deposition of Very Smooth Silicon at Hi**	2	649
matical Modeling of Electroless Nickel Deposition at Steady State Using Rotating	**Disk Electrode** Mathe	2	505
s of Aniline Polymerization Studied by Spectroelectrochemical and Rotating Ring	**Disk Electrode Techniques** Electrochemistry of Conductive Polymers. XX.	4	1277
Synchrotron-Radiation-Excited Etching of Silicon Wafer Enhanced by	**Disk-Shaped CF4 Plasma**	12	4109
	Dislocation Etch Pits in GaN Epitaxial Layers Grown on Sapphire Substrates	1	L17
Access Memories A	**Dislocation Formation Model of Trench-Induced Dislocations in Dynamic Random**	1	210
A Dislocation Formation Model of Trench-Induced	**Dislocations in Dynamic Random Access Memories**	1	210
Indirect Electrochemical Reduction of	**Dispersed Indigo Dyestuff**	8	2411
Operating Solid Oxide Fuel Cells. Polarization of Ceria-Based Anode with Highly	**Dispersed Ruthenium Catalysts in (H2 + CO2 + H2O) Gas** High-Performan	5	1700
Effect of Nafion	**Dispersion on the Stability of Pt/WO3 Electrodes**	9	2703
nate under Oxidant and Reducing Atmospheres. I. Contact Angle and Electrolyte	**Displacement Meniscus Behavior of Metals and Oxides in Molten Carbo**	8	2442
Electrophoretic Deposition of ZnO:Zn Phosphor for Field Emission	**Display Applications**	12	3923
mobilizing Oligomer Species as a Colored Matrix for Three-Color Electrochromic	**Displays** Poly(p-phenylene terephthalamide) Film Im	9	L212
Morphology of Carbon Nanoclusters Prepared by Catalytic	**Disproportionation of Carbon Monoxide**	3	932
sport Processes The	**Dissipated Energy of Electrode Surfaces: Temperature Jumps from Coupled Tran**	3	767

		Issue	Page
turation"	Physical Electrochemistry of Strong Electrolytes Based on Partial **Dissociation** and Hydration. Quantitative Interpretation of the Thermodynamic Pro	8	1789
s of a New Family of Anion Receptors and the Studies of Their Effect on Ion Pair	**Dissociation** and Conductivity of Lithium Salts in Nonaqueous Solutions T	12	3825
	Dissociative Mechanisms of Monosilane and Arsine on Copper(II) Oxide	8	2654
	Spectroelectrochemical Studies on **Dissolution** and Passivation of Zinc Electrodes in Alkaline Solutions	7	2125
0 C	The Electrochemical Study on the **Dissolution** Behavior of Gold in Ammoniacal Solutions at Temperatures above 10	6	1875
	High-Rate Copper **Dissolution** in Hydrochloric Acid Solution	3	961
	Development of Surface Impurity Segregation during **Dissolution** of Aluminum	1	83
-Edge Spectroscopy	Transpassive **Dissolution** of Cr and Sputter-Deposited Cr Oxides Studied by In Situ X-Ray Near	12	3997
	Anodic **Dissolution** of Iron in a Magnetic Field with Holographic Microphotography	12	L283
	Dissolution of Spinel Oxides and Capacity Losses in 4 V Li/LixMn2O4 Cells	7	2204
Quartz-Crystal Microbalance	Study of Deposition and **Dissolution** Processes of Lithium in Carbonate-Based Solutions by Means of the	8	2517
	Semiconductor Electrochemistry of Particulate Pyrite: **Dissolution** via Hole and Electron Pathways	10	3192
Potential-pH Diagrams for the Si-F-H2O System	**Dissolution** Windows for Wet Chemical Processing of Silicon and Silicon Dioxide:	2	749
	Behavior of **Dissolved** Molybdenum during Localized Corrosion of Austenitic Stainless Steel	12	L277
	Fabrication of a Porous Silicon Diode Possessing **Distinct** Red and Orange Electroluminescent Regions	2	L42
	Luminescence of Mn4+ in the **Distorted** Perovskite Gd2MgTiO6	9	L283
alski Silicon Crystals	The Dependence of Ring-Like **Distributed** Stacking Faults on the Axial Temperature Gradient of Growing Czochr	5	1648
eling of Plated Through-Hole Processes. II. Effect of Leveling Agents on Current	**Distribution** Mod	10	3144
	Modeling of Plated Through-Hole Processes. I. Current **Distribution**	10	3139
	Current **Distribution** and Current Efficiency in Pulsed Current Plating of Nickel	9	2770
Experimental and Numerical Results	Particle Size **Distribution** in a Low Pressure SiH4:O2:He Chemical Vapor Deposition Reactor	10	3397
	Three-Dimensional Calculation of Current **Distribution** in Electrodeposition on Patterned Cathode with Auxiliary Electrode	2	480
	Potential **Distribution** in Semiconductor Particles	6	L131
	Asymmetric **Distribution** of Oxygen Concentration in the Si Melt of a Czochralski System	2	722
	Distribution of Residual Stresses in Boron Doped p+ Silicon Films	10	3389
	Workpiece, Pattern, and Feature Scale Current **Distributions**	2	486
	Scanning Microsensors for Measurement of Local pH **Distributions** at the Microscale	8	L174
	A Gas **Distributor** for Proton-Exchange-Membrane Fuel Cells	5	L103
	Selective Oxidation of Thiols to **Disulfides** at Polymeric Cobalt Phthalocyanine Chemically Modified Electrodes	4	1253
	A New Preparation of Alpha-Oxo-Thioesters by Electro-oxidation of Diaryl **Disulfides** in the Presence of Alkynes	12	4027
	Promoting Effect of Sodium **Dodecyl** Sulfate on the Redox Reaction of Hemoglobin	2	L24
Electrochemical Noise Data for Polymer Coated Steel in the Time and Frequency	**Domains** Analysis of	12	L288
	Dopant Depth Profiling by Anodic Sectioning Using 0.1 M HCl Electrolyte	11	L258
	Use of di-Pi-cyclopentadienyl Manganese as a **Dopant** Source for ZnS in Metallorganic Chemical Vapor Deposition	12	4116
Materials Prepared by the Pechini Process. Influence of Firing Temperature and	**Dopants** Electrochemical Characteristics of Spinel Phase LiMn2O4-Based	11	3890
Characterization of Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a	**Doped** LaGaO3 Ceramic Fuel Cell	11	3630
	Electrochemical Properties of **Doped** Lanthanum Chromites as Interconnectors for Solid Oxide Fuel Cells	5	1583
	Dimensional Instability of **Doped** Lanthanum Chromite	9	2919
	Distribution of Residual Stresses in Boron **Doped** p+ Silicon Films	10	3389
egime	Electroluminescence of Heavily **Doped** p-Type Porous Silicon under Electrochemical Oxidation in Galvanostatic R	3	1085
	Thermal Stability of Proton Conducting Acid **Doped** Polybenzimidazole in Simulated Fuel Cell Environments	4	1225
	Oxide Growth Enhancement on Highly n-Type **Doped** Silicon under Steam Oxidation	4	1434
	Superior Oxygen Ion Conductivity of Lanthanum Gallate **Doped** with Strontium and Magnesium	5	1644
Control of Surface Concentration of Boron or Phosphorus Employing Ion Shower	**Doping**	2	712
tivity of Microporous Semiconductor Electrode Films Photoelectrochemical	**Doping** of TiO2 Particles and the Effect of Charge Carrier Density on the Photocat	11	3712
	Unintentional **Doping** of Wafers Due to Organophosphates in the Clean Room Ambient	9	2906
	Modeling and Analysis of a New Multiwafer Hot Wall Phosphorus **Doping** Reactor	4	1362
Silicon Layers	Delaminations of Thin Layers by High **Dose** Hydrogen Ion Implantation in Silicon. Formation of Thin Silicon on Insulator	8	L166
copy	Studies of the Electrochemical **Double** Layer at (100) Au in Perchloric Acid Solutions by In Situ Infrared Spectros	8	L171
amond	The Use of a **Double** Mask System to Prevent Ti Diffusion from a Ti/Pt/Au Ohmic Contact on Di	7	2392
	The Influence of Side Reactions on the Performance of Electrochemical **Double-Layer** Capacitors	6	1806
hylene Oxide/LiClO4 Polymer Electrolyte	All-Solid-State Electric **Double-Layer** Capacitor with Isotropic High-Density Graphite Electrode and Polyet	12	3982
with a Cutoff Frequency of 47 GHz	**Double-Layer** mc-Si/a-SiCx Emitter in a Silicon Heterojunction Bipolar Transistor	6	1949
se of the Electrochemical Quartz Crystal Microbalance for Gold Electrodes in the	**Double-Layer** Region Respon	7	2240
In Situ Infrared Studies of Polyvinyl Chloride Films Exposed to H2/O2/Ar	**Downstream** Microwave Plasmas	9	2896
eratures	Electro-osmotic **Drag** Coefficient of Water and Methanol in Polymer Electrolytes at Elevated Temp	4	1380
	Electromigration **Drift** Velocity in Al-Alloy and Cu-Alloy Lines	3	1001
	Wet and **Dry** Etching of LiGaO2 and LiAlO2	8	L160
	Effect of BCl3 **Dry** Etching on InAlN Surface Properties	9	L217
	Selective **Dry** Etching of III-V Nitrides in Cl2/Ar, CH4/H2/Ar, ICl/Ar, and IBr/Ar	10	L246
	Plasma Assisted **Dry** Etching of Cobalt Silicide for Microelectronics Applications	2	701
	Comparison of **Dry** Etching Techniques for III-V Semiconductors in CH4/H2/Ar Plasmas	3	752
	C12-Based **Dry** Etching of GaAs, AlGaAs, and GaP	6	2010
Effects in Micron and Submicron Field Regions. A Comparison Between Wet and	**Dry** Oxidation Oxide Growth	9	2953
Improvement of High Temperature Water Rinsing and	**Drying** for HF-Last Wafer Cleaning	1	233
Internal Cation Mobilities in the Molten Binary Systems (Y, La)Cl3 and (Y,	**Dy**)Cl3	1	334
Indirect Electrochemical Reduction of Dispersed Indigo	**Dyestuff**	8	2411
d Design	A Reduced-Fluid **Dynamic** Discharge Model for Applications in Technology-Oriented Computer-Aide	6	1940
A Dislocation Formation Model of Trench-Induced Dislocations in	**Dynamic** Random Access Memories	1	210
Molecular	**Dynamics** Studies of Lithium Injection in Model Cathode/Electrolyte Systems	7	2211
The Isotope Effect on the Internal Cation Mobility of Molten	**Dysprosium** Chloride	12	3830

— E —

	Photoluminescence in the **Earliest** stages of Porous Silicon Formation	8	L164
Disk Electrode Techniques	Electrochemistry of Conductive Polymers. XX. **Early** Stages of Aniline Polymerization Studied by Spectroelectrochemical and Rot	4	1277
Electropolymerization of 1,4-bis(Pyrrol-2-yl)benzene in the Presence of the	**Easily** Oxidized Electrolyte Sodium Tetraphenylborate	8	L161
Optimization of Low Damage, High Resolution Etch Process for SiNx in an	**ECR** Reactor	1	288
Protrusion Formation at the	**Edges** of Ion Implanted Regions	6	L116
urements	On Semiconductor Surface Evaluation Using the **Effective** Surface Recombination Speed for Schottky-Coupled Photovoltage Meas	6	1958
de Thermogalvanic Cell	Power Conversion **Efficiency**, Electrode Separation, and Overpotential in the Ferricyanide/Ferrocyani	8	2558
	Current Distribution and Current **Efficiency** in Pulsed Current Plating of Nickel	9	2770
	Site-Saturation Model for the Optical **Efficiency** of Tungsten Oxide-Based Devices	9	L186
st Lattice	The Intermediate Role of the Gd3+ Ions in the **Efficiency** of the Host-Sensitized Luminescence in the Lanthanum Metaborate Ho	1	330
d Polyethylene Oxide/LiClO4 Polymer Electrolyte	All-Solid-State **Electric** Double-Layer Capacitor with Isotropic High-Density Graphite Electrode an	12	3982
	Effects of an External **Electric** Field from a Substrate on Conductance of SnO2 Thin Films	4	1334
in SiO2	**Electric** Field Dependence of the Electron Capture Cross Section of Neutral Traps	8	2687
osilicate Glass	**Electrical** and Physical Characterization of Tetraethylorthosilicate-O3 Borophosph	10	3366
al Benefits of Rapid Thermal Processing	**Electrical** Characteristics of Postoxidation Annealed Very Thin SiO2 Films. Potenti	1	358
Epitaxial C49-TiSi2 Formation on (100)Si Substrate Using TiNx and Its	**Electrical** Characteristics as a Shallow Contact Metallization	6	1954
An	**Electrical** Model for the Cathodically Charged Aluminum Electrode	9	2827
n Using Co/Ti Bilayer on Oxide Patterned (100)Si Substrate and Its Effect on the	**Electrical** Properties Defect Generation during Epitaxial CoSi2 Formatio	3	L56
All-Solid-State Measurements of	**Electrical** Properties of Passive Films on Lithium	5	1690
ce States and Recombination Impedance	**Electrical** Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. I. Interfa	8	2531
ity Modulated Photocurrent Spectroscopy	**Electrical** Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. II. Interp	8	2538
	Electrical Properties of Thermally Oxidized Porous Silicon	9	2972
Differential Measurement of Nonlinear	**Electrical** Relaxation of Lithium Batteries	10	3148
Inductive Loops in Impedance Spectroscopy Caused by	**Electrical** Shielding	11	3636
	Electrical Transport Properties and Defect Structure of Sr/FeCo0.5Ox	5	1736
A New Candidate for the Solid Oxide Fuel Cell Cathode, Y0.9Ca0.1FeO3.	**Electrical** Transport Properties and Defect Structure	9	2863
Mechanism of AC	**Electrical** Transport of Carriers in Freshly Formed and Aged Porous Silicon	12	3943
s of a Fuel Cell for Cogeneration of Homogeneously Catalyzed Acetaldehyde and	**Electricity** from Ethanol Feasibility Studie	10	3058

		Issue	Page
Optimized Oxygen Plasma Etching of Polyurethane-Based	Electro-optic Polymer for Low Loss Optical Waveguide Fabrication	11	3848
/SiO2/Si	Electro-optical Charge Trapping in Zinc Porphyrin Films on Indium Tin Oxide and	6	1914
at Elevated Temperatures	Electro-osmotic Drag Coefficient of Water and Methanol in Polymer Electrolytes	4	1260
Observation of Electrode Poisoning during the	Electro-oxidation of Aromatic Alcohols on (111) Au	7	2088
A New Preparation of Alpha-Oxo-Thioesters by	Electro-oxidation of Diaryl Disulfides in the Presence of Alkynes	12	4027
Bismuth(III) and Copper(II) Oxides as Catalysts for the	Electro-oxidation of Organic Compounds	11	3436
Methanol	Electro-oxidation on Unsupported Pt-Ru Alloys at Different Temperatures	5	1685
hase Comparison of Hydrogen	Electroadsorption from the Electrolyte with Hydrogen Adsorption from the Gas P	4	1240
ion Study Hydrogen	Electrocatalysis by Carbon Supported Pt and Pt Alloys. An In Situ X-Ray Absorpt	7	2285
VI) at Bi(V)-Doped PbO2-Film Electrodes	Electrocatalysis of Anodic Oxygen-Transfer Reactions: Oxidation of Cr(III) to Cr(	7	2119
ine, Alanine, and Ammonia at Anodized Ag-Pb Eutectic Alloy Electrodes	Electrocatalysis of Anodic Oxygen-Transfer Reactions. Temperature Effects on O	8	2543
Anodic Oxidation of Methanol Using a New Base	Electrocatalyst	7	L139
ery Low Platinum Loading A New Fuel Cell	Electrocatalyst Based on Highly Porous Carbonized Polyacrylonitrile Foam with V	1	L7
Five Percent Platinum-Tungsten Oxide-Based	Electrocatalysts for Phosphoric Acid Fuel Cell Cathodes	12	3842
Effects of Ni, Fe, Cu, and Cr Substitutions for Co in La0.8Sr0.2CoO3 on	Electrocatalytic Properties for Oxygen Evolution	5	1505
xygen in Alkaline Fuel Cells	Electrocatalytic Properties of Co, Pt, and Pt-Co on Carbon for the Reduction of O	7	2152
on in an Aqueous Phase	Electrochromic Behavior of a Lambda-MnO2 Electrode Accompanying Li+ -Inserti	3	905
ybdenum Trisulfide, in Mixtures of Nonaqueous and Aqueous Electrolytes	Electrochromic Behavior of Molybdenum Trioxide Thin Films, Prepared by Therm	10	3109
d Sol-Gel Materials Large-Area	Electrochromic Coatings. Composites of Polyaniline and Polyacrylate-Silica Hybri	8	2591
alamide) Film Immobilizing Oligomer Species as a Colored Matrix for Three-Color	Electrochromic Displays Poly(p-phenylene terephth	9	L212
Optical Switching of Y-Hydride Thin Film Electrodes. A Remarkable	Electrochromic Phenomenon	10	3348
or Deposition	Electrochromic Properties of Cobalt Oxide Thin Films Prepared by Chemical Vap	4	1383
Deposition	Electrochromic Properties of Iron Oxide Thin Films Prepared by Chemical Vapor	5	1675
Structural and Spectroelectrochemical Investigations of Sol-Gel Derived	Electrochromic Spinel Co3O4 Films	5	1532
	Electrochromism in Sputtered WO3 Thin Films	3	1050
Countercation-Sensitive	Electrochromism of Cobalt Hexacyanoferrate Films	1	L10
dic Acid and Tungsten Trioxide	Electrochromism of Electrochemically Codeposited Composites of Phosphomolyb	9	2784
Platinization of Shapable	Electroconductive Polymer Film for an Improved Glucose Sensor	10	3336
Silver	Electrocrystallization on Vitreous Carbon from Ammonium Hydroxide Solutions	5	1551
Studies of Niobium	Electrocrystallization Phenomena in Molten Fluorides	5	1570
Mixed Potential Hydrogen Sensor Combining Oxide Ion Conductor with Oxide	Electrode	7	L154
n of Current Distribution in Electrodeposition on Patterned Cathode with Auxiliary	Electrode Three-Dimensional Calculatio	2	480
py Study of the Electrochemical Behavior of an Iron-Substituted Nickel Hydroxide	Electrode In Situ 57Fe Mossbauer Spectrosco	10	3083
An Electrical Model for the Cathodically Charged Aluminum	Electrode	9	2827
drogenation of Styrene Using a Two-Compartment Cell Separated by a Pd Sheet	Electrode A New Successive System for Hy	4	L71
al Modeling of Electroless Nickel Deposition at Steady State Using Rotating Disk	Electrode Mathematic	2	805
ochemical Processes Taking Place during Oxygen Evolution on the Lead Dioxide	Electrode Mechanism of the Elementary Electr	11	3616
Mixed Potential Type NOx Sensor Based on Stabilized Zirconia and Oxide	Electrode	2	L33
Voltammetric Response of Nicotinamide Coenzyme I at a Silver	Electrode	7	L141
thesis of p-Hydroxybenzaldehyde from p-Hydroxymandelic Acid Using a Platinum	Electrode Electrosyn	10	3186
rganic Solvent on the Electrochemical Lithium Intercalation Behavior of Graphite	Electrode Effects of the O	2	L26
Electrochromic Behavior of a Lambda-MnO2	Electrode Accompanying Li+ -Insertion in an Aqueous Phase	3	905
Single-Crystal Cu2O Formation on Amorphous Carbon	Electrode and Effect of Anions on the Crystal Habit of Cu2O Particles	7	2105
ent of an Electrolysis System with Vertically Circulating Mercury Capillary Bundle	Electrode and Its Characteristics A Study on Developm	9	2717
opic Studies on a Metal Complex-Immobilized Polyaniline/Prussian Blue-Modified	Electrode and the Application to the Electroreduction of CO2 In Situ Fourie	11	3606
l-Solid-State Electric Double-Layer Capacitor with Isotropic High-Density Graphite	Electrode and Polyethylene Oxide/LiClO4 Polymer Electrolyte Al	12	3982
Electrochemical Quartz Crystal Microgravimetry Study of Zinc	Electrode Behavior in a Neutral Solution by Laser Illumination	5	1525
arge Carrier Density on the Photocatalytic Activity of Microporous Semiconductor	Electrode Films Photoelectrochemical Doping of TiO2 Particles and the Eff	11	3712
obe Beam Deflection Combined with Cyclic Voltammetry Studies of C60-Modified	Electrode Film Pr	12	3874
A High-Rate Carbon	Electrode for Rechargeable Lithium-Ion Batteries	3	L84
persed Ruthenium Catalysts in (H2 + CO2 + H2O) Gas High-Performance	Electrode for Medium-Temperature Operating Solid Oxide Fuel Cells. Polarization	5	1700
Kinetics of Oxygen Reduction at IrO2-Coated Titanium	Electrode in Alkaline Solution	5	1485
Anodic Oxidation of Ethylenediaminetetraacetic Acid on Platinum	Electrode in Alkaline Medium	5	1636
AC Impedance Analysis for Li+ Insertion of a Pt/Lambda-MnO2	Electrode in an Aqueous Phase	8	2610
A Mathematical Model for a Thick Porous Metal-Hydride	Electrode in Discharge	12	3972
p Voltammetry Kinetics of Oxidation Processes on Lead	Electrode in H2SO4. III. A Study of the Growth of the PbO Layer by Linear Swee	4	1157
Piezoelectric Detection of Changes in Surface Energy of Gold	Electrode in Perchlorate Solutions Containing Iodide Ions	3	899
	Electrode Kinetics of Porous Mixed-Conducting Oxygen Electrodes	11	3554
Optimization of the Composition of the Li1-zNi1+zO2	Electrode Materials: Structural, Magnetic, and Electrochemical Studies	4	1168
Lithium Insertion Processes of Orthorhombic NaxMnO2-Based	Electrode Materials	8	2507
Synthesis of Amorphous MoO2+delta and Its	Electrode Performance in Lithium Batteries	7	L143
Observation of	Electrode Poisoning during the Electro-oxidation of Aromatic Alcohols on (111) Au	7	2088
Oxygen Atmospheres A Chemical Diffusion-Controlled	Electrode Reaction at the Compact La1-xSrxMnO3/Stabilized Zirconia Interface in	10	3065
The Role of Metal Hydrides in	Electrode Reactions on Metal Oxide Semiconductors	10	3273
galvanic Cell Power Conversion Efficiency,	Electrode Separation, and Overpotential in the Ferricyanide/Ferrocyanide Thermo	8	2558
The Dissipated Energy of	Electrode Surfaces: Temperature Jumps from Coupled Transport Processes	3	767
Application of Nonequilibrium Thermodynamics to the	Electrode Surfaces of Aluminum Electrolysis Cells	11	3440
Aniline Polymerization Studied by Spectroelectrochemical and Rotating Ring Disk	Electrode Techniques Electrochemistry of Conductive Polymers. XX. Early	4	1277
Application of Porous	Electrode Theory on Metal Hydride Electrodes in Alkaline Solution	2	435
Ohmic Resistance of the	Electrode-Electrolyte Interface in Au/YSZ Oxygen Electrodes	4	L92
Microscopy Kinetics of Particle Coarsening at Gold	Electrode/Electrolyte Solution Interfaces Followed by In Situ Scanning Tunneling	2	466
Shape Evolution of	Electrodeposited Copper Bumps	6	1880
Microstructure of	Electrodeposited Cu-Ni Binary Alloy Films	6	1978
Relation Between Physical Properties and Deposition Conditions of	Electrodeposited CuInSe2	7	2173
	Electrodeposited Magnetic Alloys for Surface Micromachining	10	3343
Behavior of Molybdenum Trioxide Thin Films, Prepared by Thermal Oxidation of	Electrodeposited Molybdenum Trisulfide, in Mixtures of Nonaqueous and Aqueou	10	3109
mproved Selenization Procedure to Obtain CuInSe2 Thin Films from Sequentially	Electrodeposited Precursors I	2	493
Monolayer Photoresist	Electrodeposited Silver Arrays Fabricated Utilizing Self-Assembled Alkanethiolate	10	3117
Morphology Evolution of Zinc-Iron Binary Alloys	Electrodeposited with Copper Additive	4	L75
Striated Morphology during	Electrodeposition	3	866
tdeposition Heat-Treatment on Morphology and Microstructure of CdTe Grown by	Electrodeposition Effects of Pos	2	517
Preparation of Lead-Zirconium-Titanium Film and Powder by	Electrodeposition	1	97
om Temperature Chloroaluminate Molten Salts	Electrodeposition and Stripping of Lithium and Sodium on Inert Electrodes in Ro	3	908
	Electrodeposition of Cu/Fe20Ni80 Magnetic Multilayers	5	L98
Effect of the Composition of Polypyrrole Substrate on the	Electrodeposition of Copper and Nickel	2	498
minate Molten Salt	Electrodeposition of Cobalt-Aluminum Alloys from Room Temperature Chloroalu	9	2747
The Effect of Blocking Additives on the	Electrodeposition of Cadmium	9	2759
ure Chloroaluminate Molten Salt	Electrodeposition of Cobalt and Cobalt-Aluminum Alloys from a Room Temperat	11	3448
Linear Alkyl Chain	Electrodeposition of Fe-C Alloys from Baths Containing Dicarboxylic Acids with a	8	2584
	Electrodeposition of In-Se, Cu-Se, and Cu-In-Se Thin Films	3	854
hyl-3-ethylimidazolium Chloride Room Temperature Molten Salt	Electrodeposition of Nickel-Aluminum Alloys from the Aluminum Chloride - 1-Met	1	130
Induced Codeposition. II. A Mathematical Model Describing the	Electrodeposition of Ni-Mo Alloys	3	893
Cathodic	Electrodeposition of Nanocrystalline Titanium Dioxide Thin Films	5	1547
Testing the Role of Metal Hydrolysis in the Anomalous	Electrodeposition of Ni-Fe Alloys	12	3918
	Electrodeposition of Silver(II) Oxide Films	9	2741
Three-Dimensional Calculation of Current Distribution in	Electrodeposition on Patterned Cathode with Auxiliary Electrode	2	480
A Model for Nanolaminated Growth Patterns in Zn and Zn-Co	Electrodeposits	5	1577
Grain Size-Internal Stress Relationship in Iron-Nickel Alloy	Electrodeposits	10	3327
xidation of Ethylamine, Alanine, and Ammonia at Anodized Ag-Pb Eutectic Alloy	Electrodes Electrocatalysis of Anodic Oxygen-Transfer Reactions. Temper	8	2543
Pulsed Electroreduction of CO2 on Silver	Electrodes	2	582
Selective Electroplating Between Metal and Semiconductor	Electrodes	11	3517
bsorption Near-Edge Structure Evidence for Quadrivalent Nickel in Nickel Battery	Electrodes In Situ X-Ray A	5	1613

			Issue	Page
lo Simulations of Polarization Resistance of Composite Solid Oxide Fuel Cells for	Electrodes	Monte Car	6	1930
Electrode Kinetics of Porous Mixed-Conducting Oxygen	Electrodes		11	3854
Effect of Nafion Dispersion on the Stability of PtWO3	Electrodes		9	2793
On the Origin of Electrochemical Oscillations at Silicon	Electrodes		4	1313
Modulation Spectroscopy of Subbandgap Light in Reduced TiO2	Electrodes		11	3800
The Chemical State of Sulfur in Carbon-Supported Fuel-Cell	Electrodes		3	813
Energetic Characterizations of Particulate RbPb2Nb3O10	Electrodes		5	1492
lectrochemical Polymerization of Aniline and Toluidine on RuO2-Coated Titanium	Electrodes	E	12	4019
n of Thiols to Disulfides at Polymeric Cobalt Phthalocyanine Chemically Modified	Electrodes	Selective Oxidatio	4	1283
Capacitive Deionization of NaCl and NaNO3 Solutions with Carbon Aerogel	Electrodes		1	159
en Evolution Reaction at Various Zr-Based Laves-Phase Hydrogen-Storage Alloy	Electrodes	Kinetics of the Hydrog	8	2527
iCoO2 Film during Lithium Insertion/Extraction by Using Interdigitated Microarray	Electrodes	In Situ Conductivity Measurements of L	10	3157
The Role of Microcracking in ZrCrNi Hydride	Electrodes		2	L31
Ohmic Resistance of the Electrode-Electrolyte Interface in Au/YSZ Oxygen	Electrodes		4	L82
Electrochemical Behavior of Boron-Doped Diamond	Electrodes		10	L238
High Surface Area V2O5 Aerogel Intercalation	Electrodes		7	2099
Hydrogen and Oxygen Evolution on Boron-Doped Diamond	Electrodes		6	L133
ygen-Transfer Reactions: Oxidation of Cr(III) to Cr(VI) at Bi(V)-Doped PbO2-Film	Electrodes	Electrocatalysis of Anodic Ox	7	2119
Surface Characterization of RuO2-SnO2 Coated Titanium	Electrodes		1	32
Current Responses to an Impulse Laser Light Illumination in Semiconductor	Electrodes		7	2220
Li/LiMn2O4 Cells FTIR Spectroscopy of Metal Oxide Insertion	Electrodes	A New Diagnostic Tool for Analysis of Capacity Fading in Secondary	6	L136
Optical Switching of Y-Hydride Thin Film	Electrodes	A Remarkable Electrochromic Phenomenon	10	3348
mination of Improved Selectivity Coefficients of Polymer Membrane Ion-Selective	Electrodes	by Conditioning with a Discriminated Ion Deter	4	L83
Photocurrent Losses in Nanocrystalline/Nanoporous TiO2	Electrodes	Due to Electrochemically Active Species in the Electrolyte	10	3173
Stress in Carbon Film	Electrodes	during Li+ Electrochemical Intercalation	8	2417
New Carbon	Electrodes	for Secondary Lithium Batteries	5	L95
Monte Carlo Simulations of Conductivity of Composite	Electrodes	for Solid Oxide Fuel Cells	3	1123
Characterization of Solution Derived RuO2	Electrodes	for Pb(Zr,Ti)O3 Microcapacitors	9	3008
Fabrication and Characterization of Nanostructured Gold	Electrodes	for Electrochemical Biosensors	12	3890
Application of Porous Electrode Theory on Metal Hydride	Electrodes	in Alkaline Solution	2	435
Electrochemical Kinetic Parameters of Bare and Copper Coated LaNi4.27Sn0.24	Electrodes	in Alkaline Solution Determination of Transport and	3	834
Polypyrrole Composite	Electrodes	in an All-Polymer Battery System	3	836
Approaches Oxygen Evolution on Co-Cu-Zn Ternary Spinel Oxide-Coated	Electrodes	in Alkaline Solution. Integration of Statistical, Electrochemical, and Tex	4	1218
Spectroelectrochemical Studies on Dissolution and Passivation of Zinc	Electrodes	in Alkaline Solutions	7	2128
al Reversal Technique Topographic Changes of Polycrystalline Ag and Cu	Electrodes	in Acid Aqueous Solutions Resulting from a Prolonged Application of t	7	2294
nate Mixtures A Comparative Study of Synthetic Graphite and Li	Electrodes	in Electrolyte Solutions Based on Ethylene Carbonate-Dimethyl Carbo	12	3899
Kinetics of the Hydrogen Evolution Reaction on RuO2 and IrO2 Oxide	Electrodes	in H2SO4 Solution: An AC Impedance Study	11	3576
A Three-Phase Homogeneous Model for Porous	Electrodes	in Molten-Carbonate Fuel Cells	6	1817
The Anodic Behavior of Azide Ions at Carbon	Electrodes	in Neutral Electrolyte	2	556
The Anodic Behavior of Azide Ions on Gold and Platinum	Electrodes	in Neutral Electrolyte	6	1827
Electrochemical Oxidation Processes on Ni	Electrodes	in Propylene Carbonate Containing Various Electrolyte Salts	8	2548
Electrodeposition and Stripping of Lithium and Sodium on Inert	Electrodes	in Room Temperature Chloroaluminate Molten Salts	3	908
Response of the Electrochemical Quartz Crystal Microbalance for Gold	Electrodes	in the Double-Layer Region	7	2240
Morphology and Strongly Enhanced Photoresponse of GaP	Electrodes	Made Porous by Anodic Etching	1	305
A Transient Method for Measuring Diffusion Coefficients of Thin Film Battery	Electrodes	Results for LiyCoO2 and LixC6 Thin Films	6	L129
ing Polymers. XIX. Oxidation of Aniline at Bare and Polyaniline-Modified Platinum	Electrodes	Studied by Electrochemical Impedance Spectroscopy Electroch	4	1269
Nanocrystalline TiO2 (Anatase)	Electrodes	Surface Morphology, Adsorption, and Electrochemical Properties	2	394
Studies of Metal Hydride	Electrodes	Using an Electrochemical Quartz Crystal Microbalance	1	120
Characterization of the Electroless Ni-Mo-P/SnO2/Ti	Electrodes	with Heat-Treatment for Oxygen Evolution in Alkaline Solution	7	2158
Application of Measurement Models to	Electrohydrodynamic	Impedance Spectroscopy	3	948
High Aspect Ratio Microtunnel Technique to Empirically Model	Electroless	Deposition	4	L78
Plasma Treatment Process for Palladium Chemisorption onto Polymers before	Electroless	Deposition	2	472
Kinetics and Mechanism of	Electroless	Deposition of Copper	2	510
A Novel Seed Layer Scheme to Protect Catalytic Surfaces for	Electroless	Deposition	11	3812
Auger Electron Spectroscopy Element Profiles and Interface with Substrates of	Electroless	Deposited Ternary Alloys	11	3692
n in Alkaline Solution Characterization of the	Electroless	Ni-Mo-P/SnO2/Ti Electrodes with Heat-Treatment for Oxygen Evolutio	7	2158
Mathematical Modeling of	Electroless	Nickel Deposition at Steady State Using Rotating Disk Electrode	2	505
r Films Selective	Electroless	Nickel Deposition on Patterned Phosphonate and Carboxylate Polyme	2	691
Interface with Substrates of High-Phosphorus	Electroless	NiP and NiCuP Deposited from Nonammonia Alkaline Solutions	9	2804
rface Modification of Porous Silicon by Aluminum Isopropoxide and Its Impact on	Electroluminescence	Su	4	1390
ical Oxidation in Galvanostatic Regime	Electroluminescence	of Heavily Doped p-Type Porous Silicon under Electrochem	3	1055
Fabrication of a Porous Silicon Diode Possessing Distinct Red and Orange	Electroluminescent	Regions	2	L42
cation of Nonequilibrium Thermodynamics to the Electrode Surfaces of Aluminum	Electrolysis	Cells Appli	11	3440
Hydrogenation of C60 by	Electrolysis	of KOH-H2O Solution	6	1919
	Electrolysis	of Water in CuO/ZnO Heterocontact Humidity Sensor	4	L89
and Its Characteristics A Study on Development of an	Electrolysis	System with Vertically Circulating Mercury Capillary Bundle Electrode	9	2717
Removal of Metal and Organic Contaminants from Silicon Substrates Using	Electrolysis-Ionized	Water Containing Ammonium Chloride	5	1632
The Anodic Behavior of Azide Ions at Carbon Electrodes in Neutral	Electrolyte		2	556
Dopant Depth Profiling by Anodic Sectioning Using 0.1 M HCl	Electrolyte		11	L256
y, at Microelectrode, of C60n- (n = 0 to 4) Solvation in the Absence of Supporting	Electrolyte	Electroreduction of C60 in Aprotic Solvents. III. Voltammetric S	2	550
otropic High-Density Graphite Electrode and Polyethylene Oxide/LiClO4 Polymer	Electrolyte	All-Solid-State Electric Double-Layer Capacitor with Is	12	3982
ical Polarization on Optical Properties of Sputter-Prepared Tin Nitride in Aqueous	Electrolyte	Effect of Electrochem	1	326
A Hydrogen Sulfide Fuel Cell Using a Proton-Conducting Solid	Electrolyte		3	L55
lline/Nanoporous TiO2 Electrodes Due to Electrochemically Active Species in the	Electrolyte	Photocurrent Losses in Nanocryste	10	3173
A Temperature Study of the Ionic Conductivity of a Hybrid Polymer	Electrolyte		2	570
Operating Properties of Solid Oxide Fuel Cells Using BaCe0.8Gd0.2O3-Alpha	Electrolyte		6	1886
Perfluoro-ethylene-1,2-bis-phosphonic Acid Fuel Cell	Electrolyte		9	2765
of Propene Using an Electrochemical Membrane Reactor with CeO2-Based Solid	Electrolyte	Selective Oxidation	4	1264
The Anodic Behavior of Azide Ions on Gold and Platinum Electrodes in Neutral	Electrolyte		6	1827
metry and Conductivity of a Polyether-Pyridinium Room Temperature Molten Salt	Electrolyte	and of Its Polymer Electrolyte Solutions in Polydimethylsiloxane	2	401
en Zinc Solid	Electrolyte	Based Galvanic Cell for Measuring the Antimony Concentration in Molt	8	2498
Overcharge Protection for Rechargeable Lithium Polymer	Electrolyte	Batteries	12	3982
olten Carbonate under Oxidant and Reducing Atmospheres. I. Contact Angle and	Electrolyte	Displacement Meniscus Behavior of Metals and Oxides in M	8	2442
lene)]/Lithium Metal Interface. Comparison of Linear, Cross Linked, and Alkylated	Electrolyte	Films Study of the Poly[oxymethylene oligo-(oxy-ethy	4	1292
Colloidal Processing of BaCeO3-Based	Electrolyte	Films	10	3239
Li/9SiAlO8: A Lithium Ion	Electrolyte	for Voltages above 5.4 V	7	2198
High Performance Direct Methanol Polymer	Electrolyte	Fuel Cells	1	L12
Formic Acid Oxidation in a Polymer	Electrolyte	Fuel Cell. A Real-Time Mass-Spectrometry Study	7	L158
Characterization of Polymer	Electrolyte	Fuel Cells Using AC Impedance Spectroscopy	2	587
toelectrochemical Energy Conversion at the Conjugated Polymer/Redox Polymer	Electrolyte	Interface Pho	7	2310
Self-Humidifying Polymer	Electrolyte	Membranes for Fuel Cells	12	3847
	Electrolyte	Optimization for Cathodic Growth of Zinc Oxide Films	3	L83
xidation Processes on Ni Electrodes in Propylene Carbonate Containing Various	Electrolyte	Salts Electrochemical O	8	2548
lymerization of 1,4-bis(Pyrrol-2-yl)benzene in the Presence of the Easily Oxidized	Electrolyte	Sodium Tetraphenylborate Electropo	8	L161
Inorganic	Electrolyte	Solutions and Gels for Rechargeable Lithium Batteries	9	L209
lyether-Pyridinium Room Temperature Molten Salt Electrolyte and of Its Polymer	Electrolyte	Solutions in Polydimethylsiloxane Voltammetry and Conductivit	2	401
A Comparative Study of Synthetic Graphite and Li Electrodes in	Electrolyte	Solutions Based on Ethylene Carbonate-Dimethyl Carbonate Mixtures	12	3809
Use of Chloroethylene Carbonate as an	Electrolyte	Solvent for a Graphite Anode in a Lithium-Ion Battery	7	2230
A Novel	Electrolyte	Solvent for Rechargeable Lithium and Lithium-Ion Batteries	12	4047
A Model for the Incorporation of	Electrolyte	Species into Anodic Alumina	1	74
New	Electrolyte	System for Li-Ion Battery	9	L195
Comparison of Hydrogen Electroadsorption from the	Electrolyte	with Hydrogen Adsorption from the Gas Phase	4	1249

		Issue	Page
A Polymer	**Electrolyte-Based** Rechargeable Lithium/Oxygen Battery	1	1
Characterization of Na+-Sensitive	**Electrolyte/Oxide/Semiconductor** Structures Obtained by Ion Implantation	4	1422
In Situ Monitoring of Grouted	**Electrolytes**	4	1214
eraction Between Lithium Salt and Ethylene Carbonate Plasticizer for PAN-based	**Electrolytes** A Vibrational Spectroscopic Study on the Int	5	1519
tu Quartz Crystal Microbalance Studies of Nickel Hydrous Oxide Films in Alkaline	**Electrolytes** In Si	1	37
Reactivity of Lithium Intercalated into Petroleum Coke with Carbonate	**Electrolytes**	2	391
rfacial Resistance on Determination of Transport Properties of Mixed-Conducting	**Electrolytes** Effect of Inte	6	L109
Room Temperature Inorganic "Quasi-Molten Salts" as Alkali-Metal	**Electrolytes**	11	3848
lectrodeposited Molybdenum Trisulfide, in Mixtures of Nonaqueous and Aqueous	**Electrolytes** Electrochromic Behavior of Molybdenum Trioxide Thin Films,	10	3109
0.8Gd0.2O3 Composites as Cathode Materials for SOFCs Using BaCeO3-Based	**Electrolytes** Silver-BaCe	3	889
Electrochemical Lithium Intercalation in VO2(B) in Aqueous	**Electrolytes**	9	2730
A New Class of Advanced Polymer	**Electrolytes** and Their Relevance in Plastic-Like, Rechargeable Lithium Batteries	1	6
Electro-osmotic Drag Coefficient of Water and Methanol in Polymer	**Electrolytes** at Elevated Temperatures	4	1260
of NaCl(aq) from "Zero to Saturation" Physical Electrochemistry of Strong	**Electrolytes** Based on Partial Dissociation and Hydration. Quantitative Interpretati	6	1789
esulfonyl)methide Conductivity and Electrochemical Stability of	**Electrolytes** Containing Organic Solvent Mixtures with Lithium tris(Trifluoromethan	4	L80
Electrochemical Deposition of Very Smooth Lithium Using Nonaqueous	**Electrolytes** Containing HF	7	2187
Class of Electrochemically and Thermally Stable Lithium Salts for Lithium Battery	**Electrolytes.** II. Conductivity of Lithium Organoborates in Dimethoxyethane and Pr	11	3585
Class of Electrochemically and Thermally Stable Lithium Salts for Lithium Battery	**Electrolytes.** III. Synthesis and Properties of Some Lithium Organoborates	11	3572
Thermal Stability of Concentrated V(V)	**Electrolytes** in the Vanadium Redox Cell	4	L86
Dehydroxylation of LiAlCl4.xSO2	**Electrolytes** Using Chlorine	11	3585
ort of Formaldehyde and Ethylene Glycol Through Ion Permeable Membranes in	**Electrolytic** Cells A Study of the Transp	1	175
Response Time of Thin-Layer	**Electrolytic** Cells to Potential-Step Signals	12	4006
Report of the	**Electrolytic** Industries for the Year 1995	10	3410
covery of Bromine from Waste Gas-Phase Hydrogen Bromide Streams Using an	**Electrolytic** Membrane Re	9	L184
A Palladium Sulfide Catalyst for	**Electrolytic** Plating	4	1206
	Electromigration Characteristics for Al-Ge-Cu	3	1088
with Aluminum Reflow	**Electromigration** Characteristics of Sputtered TiN/Ti/AlSiCu/TiON/Ti Interconnects	10	3297
	Electromigration Drift Velocity in Al-Alloy and Cu-Alloy Lines	3	1001
Roles of Cap-Metal on Via	**Electromigration** Resistance in Aluminum-Based Interconnections	3	1043
	Electromodulation of Luminescence in Organic Photoconductors	1	315
Factors Inducing Deterioration of InBO3:Tb by	**Electron** Bombardment	5	1696
Electric Field Dependence of the	**Electron** Capture Cross Section of Neutral Traps in SiO2	8	2687
On	**Electron** Conduction and Trapping in SIMOX Dielectric	10	3354
	Electron Cyclotron Resonance Plasma Etching of Native TiO2 on TiN	1	254
Rapid Thermal Annealing Behavior of Amorphous SiC Layers Deposited by	**Electron** Cyclotron Resonance Plasma	1	271
Effects of Annealing on Damage in AlGaAs Induced by	**Electron** Cyclotron Resonance SF6/CHF3 Plasma Etching	3	1151
Profile and Morphology Control during Etching of SiC Using	**Electron** Cyclotron Resonant Plasmas	8	2820
A WSixN Diffusion Barrier Formed with	**Electron** Cyclotron Resonance Nitrogen Plasma	11	3747
duced by Large Tilt Angle Ion Implantation Transmission	**Electron** Microscopy and Spectroscopic Ellipsometry Studies of Damage Layer In	8	2836
Semiconductor Electrochemistry of Particulate Pyrite: Dissolution via Hole and	**Electron** Pathways	10	3192
h SiO2 Thin Film	**Electron** Spectroscopy for Chemical Analysis of Cool White Phosphors Coated wit	1	302
ss Deposited Ternary Alloys Auger	**Electron** Spectroscopy Element Profiles and Interface with Substrates of Electrole	11	3692
Films	**Electron** Traps and Excess Current Induced by Hot-Hole Injection into Thin SiO2	10	3377
Formation of Shallow Junctions during Rapid Thermal Processing from	**Electron-Beam** Deposited Boron Sources	9	2981
d Silane Formation of High-Quality Nitrided Silicon Dioxide Films Using	**Electron-Cyclotron** Resonance Chemical Vapor Deposition with Nitrous Oxide an	5	1681
Low Energy	**Electron-Enhanced** Etching of GaN/Si in Hydrogen Direct Current Plasma	11	L251
Thermodynamic Stability and	**Electronic** Conductivity of Na-beta-Alumina	3	943
cing Atmospheres	**Electronic** Conduction Mechanism in Yttria-Stabilized Zirconia-Titania under Redu	11	3706
ace Roughness Si-SiO2	**Electronic** Interface Roughness as a Consequence of Si-SiO2 Topographic Interf	3	1021
Surface	**Electronic** Structures and Photoluminescence Mechanisms of Porous Si	8	2502
Stainless Steels	**Electronic** Structure of Passive Films Formed on Molybdenum-Containing Ferritic	10	3088
Critical Analysis of Potential Step Data for Oxygen Transport in	**Electronically** Conducting Perovskites	11	3497
sk Effects of Transmitted	**Electrons** on Inductively Coupled Plasma Etching of a Si Wafer Through an Al Ma	11	3752
ations	**Electrophoretic** Deposition of ZnO:Zn Phosphor for Field Emission Display Applic	12	3923
Determination of Lithium Ion Transference Numbers by	**Electrophoretic** Nuclear Magnetic Resonance	6	L107
rochemically Reduced Polycrystalline Tin Oxide Thin Films. Surface Analysis and	**Electroplated** Copper Adhesion Elect	6	2048
on Membrane The Effects of Multiple	**Electroplated** Zinc Layers on the Inhibition of Hydrogen Permeation Through an Ir	6	1871
Au(III) in Borate Medium: Electrochemical Behavior and Application to	**Electroplating**	4	1201
Selective	**Electroplating** Between Metal and Semiconductor Electrodes	11	3517
y Oxidized Electrolyte Sodium Tetraphenylborate	**Electropolymerization** of 1,4-bis(Pyrrol-2-yl)benzene in the Presence of the Easil	8	L161
, of C60n- (n = 0 to 4) Solvation in the Absence of Supporting Electrolyte	**Electroreduction** of C60 in Aprotic Solvents. III. Voltammetric Study, at Microelect	2	550
Pulsed	**Electroreduction** of CO2 on Silver Electrodes	2	582
mobilized Polyaniline/Prussian Blue-Modified Electrode and the Application to the	**Electroreduction** of CO2 In Situ Fourier Transform Infrared Spectroscopic	11	3806
a Platinum Electrode	**Electrosynthesis** of p-Hydroxybenzaldehyde from p-Hydroxymandelic Acid Using	10	3166
lloys Auger Electron Spectroscopy	**Element** Profiles and Interface with Substrates of Electroless Deposited Ternary A	11	3692
the Lead Dioxide Electrode Mechanism of the	**Elementary** Electrochemical Processes Taking Place during Oxygen Evolution on	11	3616
lectro-osmotic Drag Coefficient of Water and Methanol in Polymer Electrolytes at	**Elevated** Temperatures E	4	1260
Characterization and Residue	**Elimination** of Hot Aluminum Etching in a Transformer Coupled Plasma Etcher	5	1763
on Transmission Electron Microscopy and Spectroscopic	**Ellipsometry** Studies of Damage Layer Induced by Large Tilt Angle Ion Implantati	8	2836
In Situ Scanning Tunneling Microscopy Atomic-Scale	**Elucidation** of the Anisotropic Etching of (110) n-Si in Aqueous NH4F: Studies by	12	4012
Multiple Source Quantum Well Model of Porous Silicon Light	**Emission**	4	1394
Electrophoretic Deposition of ZnO:Zn Phosphor for Field	**Emission** Display Applications	12	3923
7 GHz Double-Layer mc-SiVa-SiCx	**Emitter** in a Silicon Heterojunction Bipolar Transistor with a Cutoff Frequency of 4	6	1949
High Aspect Ratio Microtunnel Technique to	**Empirically** Model Electroless Deposition	4	L78
Control of Surface Concentration of Boron or Phosphorus	**Employing** Ion Shower Doping	2	712
CoO2, The	**End** Member of the LixCoO2 Solid Solution	3	1114
ral Network Plasma Etching	**Endpointing** by Monitoring Radio-Frequency Power Systems with an Artificial Neu	8	2929
	Energetic Characterizations of Particulate RbPb2Nb3O10 Electrodes	5	1492
e and Current-Voltage Behavior of a Semiconductor/Liquid Junction with a Small	**Energy** Barrier Impedanc	5	1598
e Photoelectrochemical	**Energy** Conversion at the Conjugated Polymer/Redox Polymer Electrolyte Interfac	7	2310
Low	**Energy** Electron-Enhanced Etching of GaN/Si in Hydrogen Direct Current Plasma	11	L251
sses The Dissipated	**Energy** of Electrode Surfaces: Temperature Jumps from Coupled Transport Proce	3	767
Piezoelectric Detection of Changes in Surface	**Energy** of Gold Electrode in Perchlorate Solutions Containing Iodide Ions	3	899
opy Structural and Compositional Characterization of High	**Energy** Separation by Implantation of Oxygen Structures Using Infrared Spectrosc	9	3019
Intramolecular	**Energy** Transfer and Mn4+ Luminescence in Polyoxometallomanganate Lattices	5	1678
Synchrotron-Radiation-Excited Etching of Silicon Wafer	**Enhanced** by Disk-Shaped CF4 Plasma	12	4109
Room Temperature Deposition of Silicon Dioxide Films by Ion-Assisted Plasma	**Enhanced** Chemical Deposition	4	1443
Dielectric Constant and Stability of Fluorine-Doped Plasma	**Enhanced** Chemical Vapor Deposited SiO2 Thin Films	6	2015
Si2H6-H2-SiF4 Remote Plasma	**Enhanced** Chemical Vapor Deposition of Silicon Films at Low Temperatures from	8	2640
Cause of Aligned-Orientation Growth of Titanium Silicide in Plasma	**Enhanced** Chemical Vapor Deposition	11	3778
	Enhanced Etching Rate of Silicon in Fluoride Containing Solutions at pH 6.4	8	2883
Systematic Theoretical Study of Alloys of Platinum for	**Enhanced** Methanol Fuel Cell Performance	6	2075
Morphology and Strongly	**Enhanced** Photoresponse of GaP Electrodes Made Porous by Anodic Etching	1	305
Greatly	**Enhanced** Sub-Bandgap Photocurrent in Porous GaP Photoanodes	3	1137
Oxide Growth	**Enhancement** on Highly n-Type Doped Silicon under Steam Oxidation	4	1434
Interface Region Oxide Growth	**Enhancement** Related to Annealing Induced Arsenic Accumulation in the Si/SiO2	1	L15
Natural Organics and	**Environmental** Stability of Mercury. Electrochemical Considerations	6	L123
Thermal Stability of Nafion in Simulated Fuel Cell	**Environments**	5	1498
bility of Proton Conducting Acid Doped Polybenzimidazole in Simulated Fuel Cell	**Environments** Thermal Sta	4	1225
Characteristics as a Shallow Contact Metallization	**Epitaxial** C49-TiSi2 Formation on (100)Si Substrate Using TiNx and Its Electrical	6	1984
ate and Its Effect on the Electrical Properties Defect Generation during	**Epitaxial** CoSi2 Formation Using Co/Ti Bilayer on Oxide Patterned (100)Si Substr	3	L58
H2 Cleaning of Silicon Wafers before Low-Temperature	**Epitaxial** Growth by Ultrahigh Vacuum/Chemical Vapor Deposition	7	2361

		Issue	Page
The Viability of GeH4-Based In Situ Clean for Low Temperature Silicon	**Epitaxial Growth**	7	2387
Dislocation Etch Pits in GaN	**Epitaxial Layers Grown on Sapphire Substrates**	1	L17
Effect of Transport Phenomena on Boron Concentration Profiles in Silicon	**Epitaxial Wafers**	2	677
Deposition of Tin Oxide into Porous Silicon by Atomic Layer	**Epitaxy**	2	683
Thermodynamic Analysis of GaAs1-xPx Vapor Phase	**Epitaxy**	8	2631
On the Role of Chlorine in Selective Silicon	**Epitaxy by Chemical Vapor Deposition**	10	3290
On The Mechanism of Boron Incorporation during Silicon	**Epitaxy by Means of Chemical Vapor Deposition**	2	634
Design and Performance of a New Reactor for Vapor Phase	**Epitaxy of 3C, 6H, and 4H SiC**	9	2910
Surface Evolution in a Pulsed Laser Induced	**Epitaxy Process of Submicron SiGe Wires**	8	2678
tation of the Power Response of a Fuel Cell with a Quadratic Logistic Differential	**Equation** Interpre	6	L113
Linear Algebra Used to Determine Independent Half-Cell	**Equations**	6	1781
Sodium/Phosphorus-Sulfur Cells. II. Phase	**Equilibria**	2	412
Oxygen Permeation in Perfluorinated Proton Exchange Membranes with Different	**Equivalent Weights** Microelectrode Investigation of	3	927
with Respect to the Polarization Impedance The	**Error Structure of Impedance Spectra for Systems with a Large Ohmic Resistance**	12	3880
roved Within-Wafer Uniformity Modeling Through the Use of Maximum-Likelihood	**Estimation** of the Mean and Covariance Surfaces Imp	10	3404
Dislocation	**Etch Pits in GaN Epitaxial Layers Grown on Sapphire Substrates**	1	L17
Optimization of Low Damage, High Resolution	**Etch Process for SiNx in an ECR Reactor**	1	288
Extremely High	**Etch Rates of In-Based III-V Semiconductors in BCl3/N2 Based Plasma**	10	3394
Repair of Plasma	**Etch Related Gate Perimeter Damage Using Low Temperature Oxidation**	2	638
Wet Chemical	**Etch Solutions for AlxGa1-xP**	1	L1
mplantation into Silicon	**Etch-Stop Behavior of Buried Layers Formed by Substoichiometric Nitrogen Ion I**	3	1026
Highly Sensitive	**Etchants for Delineation of Defects in Single- and Polycrystalline Silicon Materials**	12	4079
anges in the Surface Morphology of (100) n-InP Samples Photoelectrochemically	**Etched** Potential-Induced Ch	9	2915
Surface Characteristics of (100) Silicon Anisotropically	**Etched in Aqueous KOH**	4	1372
Surface Morphology of p-Type (100) Silicon	**Etched in Aqueous Alkaline Solution**	5	1744
Copper Deposition on HF	**Etched Silicon Surfaces: Morphological and Kinetic Studies**	1	92
Residue Elimination of Hot Aluminum Etching in a Transformer Coupled Plasma	**Etcher** Characterization and	5	1763
Fabrication of GaAs Microtips for Scanning Tunneling Microscopy by Wet	**Etching**	8	2616
Damage in AlGaAs Induced by Electron Cyclotron Resonance SF6/CHF3 Plasma	**Etching** Effects of Annealing on	3	1151
d Strongly Enhanced Photoresponse of GaP Electrodes Made Porous by Anodic	**Etching** Morphology an	1	305
Modeling of Heat Transport and Wafer Heating Effects during Plasma	**Etching**	11	3874
Patterning of Benzocyclobutene by Reactive Ion	**Etching**	8	2695
Adsorption of Chlorine on TiSi2: Application to	**Etching and Deposition of Silicide Films**	1	288
ns of a Feedback Control Scheme for an Inductively Coupled Plasma Source for	**Etching Applications** Simulatio	4	1375
cial Neural Network Plasma	**Etching Endpointing by Monitoring Radio-Frequency Power Systems with an Artifi**	6	2029
Fine-line Patterning of Parylene-n by Reactive Ion	**Etching for Application as an Interlayer Dielectric**	5	1974
Characterization and Residue Elimination of Hot Aluminum	**Etching in a Transformer Coupled Plasma Etcher**	5	1783
Investigation of Polyimide Residue Due to Reactive Ion	**Etching in O2**	4	1484
Impact of Reactive Ion	**Etching Induced Carbon Contamination on Oxidation of Silicon**	7	2378
plexation Model	**Etching Kinetics of Silicon Dioxide in Aqueous Fluoride Solutions. A Surface Com**	4	1339
croscopy Atomic-Scale Elucidation of the Anisotropic	**Etching of (110) n-Si in Aqueous NH4F: Studies by In Situ Scanning Tunneling Mi**	12	4012
Reactive Ion	**Etching of 6H-SiC in SF6/O2 and CF4/O2 with N2 Additive for Device Fabrication**	3	1037
	Etching of 6H-SiC and 4H-SiC Using NF3 in a Reactive Ion Etching System	5	1790
Kinetics and Modeling of Wet	**Etching of Aluminum Oxide by Warm Phosphoric Acid**	2	619
Wet Chemical	**Etching of AlN and InAlN in KOH Solutions**	11	3681
Effects of Transmitted Electrons on Inductively Coupled Plasma	**Etching of a Si Wafer Through an Al Mask**	11	3752
Plasma Assisted Dry	**Etching of Cobalt Silicide for Microelectronics Applications**	2	701
Kinetics and Mechanism of the	**Etching of CoSi2 in HF-Based Solutions**	10	3248
Reactive Ion	**Etching of Copper Films in an SiCl4, N2, Cl2, and NH3 Mixture**	12	4089
Low Energy Electron-Enhanced	**Etching of GaN/Si in Hydrogen Direct Current Plasma**	11	L251
C12-Based Dry	**Etching of GaAs, AlGaAs, and GaP**	6	2010
High-Density	**Etching of Group III Nitride Ternary Films**	10	3286
Wet Chemical Digital	**Etching of GaAs at Room Temperature**	11	3852
Wet Chemical	**Etching of High Quality V-Grooves with (111) A Sidewalls on (001) InP**	10	3271
Selective Dry	**Etching of III-V Nitrides in Cl2/Ar, CH4/H2/Ar, ICl/Ar, and IBr/Ar**	10	L246
High Ion Density Plasma	**Etching of InGaP, AlInP, and AlGaP in CH4/H2/Ar**	3	1093
The	**Etching of InP by Acidic Iodine Solutions. A Kinetic and Electrochemical Study**	4	1319
Comparison of ICl and IBr Plasma Chemistries for	**Etching of InGaAlP Alloys**	11	3656
Wet and Dry	**Etching of LiGaO2 and LiAlO2**	8	L169
Electron Cyclotron Resonance Plasma	**Etching of Native TiO2 on TiN**	1	264
Photoelectrochemical	**Etching of p-InP in Nitric Acid Solutions**	9	L200
uide Fabrication Optimized Oxygen Plasma	**Etching of Polyurethane-Based Electro-optic Polymer for Low Loss Optical Waveg**	11	3848
Profile and Morphology Control during	**Etching of SiC Using Electron Cyclotron Resonant Plasmas**	8	2620
Synchrotron-Radiation-Excited	**Etching of Silicon Wafer Enhanced by Disk-Shaped CF4 Plasma**	12	4109
Bevel	**Etching of Tin-Doped Indium Oxide**	2	L40
Modeling and Characterization of Gas-Phase	**Etching of Thermal Oxide and TEOS Oxide Using Anhydrous HF and CH3OH**	3	1099
	Etching of Tantalum in Fluorine-Containing High Density Plasmas	10	3286
Effect of BCl3 Dry	**Etching on InAlN Surface Properties**	9	L217
copy Technique Contact	**Etching Process Characterization by Using Angular X-Ray Photoelectron Spectros**	4	1347
	Etching Profiles and Neutral Shadowing in Long Trenches	2	672
Enhanced	**Etching Rate of Silicon in Fluoride Containing Solutions at pH 6.4**	8	2683
	Etching SiO2 Films in Aqueous 0.49% HF	9	2888
Etching of 6H-SiC and 4H-SiC Using NF3 in a Reactive Ion	**Etching System**	5	1790
Comparison of Dry	**Etching Techniques for III-V Semiconductors in CH4/H2/Ar Plasmas**	2	752
cation of MOS Gate Dielectric Breakdown Spot Using High Selectivity C1 Radical	**Etching Technique** Identifi	8	2691
Si Wafer	**Etching with Synchrotron Radiation in a CF4 Gas Atmosphere**	11	3754
for Cogeneration of Homogeneously Catalyzed Acetaldehyde and Electricity from	**Ethanol** Feasibility Studies of a Fuel Cell	10	3058
alysis of Anodic Oxygen-Transfer Reactions. Temperature Effects on Oxidation of	**Ethylamine**, Alanine, and Ammonia at Anodized Ag-Pb Eutectic Alloy Electrodes	8	2543
A Vibrational Spectroscopic Study on the Interaction Between Lithium Salt and	**Ethylene Carbonate Plasticizer for PAN-based Electrolytes**	5	1510
e Study of Synthetic Graphite and Li Electrodes in Electrolyte Solutions Based on	**Ethylene Carbonate-Dimethyl Carbonate Mixtures** A Comparativ	12	3809
A Study of the Transport of Formaldehyde and	**Ethylene Glycol Through Ion Permeable Membranes in Electrolytic Cells**	1	175
Anodic Oxidation of	**Ethylenediaminetetraacetic Acid on Platinum Electrode in Alkaline Medium**	5	1636
	Ethylmethylcarbonate, a Promising Solvent for Li-Ion Rechargeable Batteries	12	L273
Temperature Molten Salts Spectroscopic and Electrochemical Studies of	**Europium(III) Chloride in Aluminum Chloride-1-Methyl-3-ethylimidazolium Chloride**	3	914
re Effects on Oxidation of Ethylamine, Alanine, and Ammonia at Anodized Ag-Pb	**Eutectic Alloy Electrodes** Electrocatalysis of Anodic Oxygen-Transfer Reac	8	2543
Thermodynamic Properties of U, Np, Pu, and Am in Molten LiCl-KCl	**Eutectic and Liquid Cadmium**	8	2487
Generation of Si-SiO2 Interface States at Surface Potentials near 0.4 and 0.7	**eV**	11	3757
Surface and Interfacial Roughness of Polished and Oxidized Silicon Wafers	**Evaluated by an Infrared Differential Interference Contrast Technique**	11	L254
In Situ X-Ray Absorption Near-Edge Structure	**Evidence for Quadrivalent Nickel in Nickel Battery Electrodes**	5	1613
Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic Properties for Oxygen	**Evolution** Effects of Ni, Fe, Cu, and Cr	5	1506
Effect of Mask Wall Angle on Shape	**Evolution during Through-Mask Electrochemical Micromachining**	2	544
n of the Electroless Ni-Mo-P/SnO2/Ti Electrodes with Heat-Treatment for Oxygen	**Evolution in Alkaline Solution** Characterizatio	7	2158
Surface	**Evolution in a Pulsed Laser Induced Epitaxy Process of Submicron SiGe Wires**	8	2678
Shape	**Evolution of Electrodeposited Copper Bumps**	6	1880
Morphology	**Evolution of Zinc-Iron Binary Alloys Electrodeposited with Copper Additive**	4	L75
Hydrogen and Oxygen	**Evolution on Boron-Doped Diamond Electrodes**	6	L133
tegration of Statistical, Electrochemical, and Textural Approaches Oxygen	**Evolution on Co-Cu-Zn Ternary Spinel Oxide-Coated Electrodes in Alkaline Soluti**	4	1218
Very Smooth Silicon at High Deposition Rates Silicon Nucleation and Film	**Evolution on Silicon Dioxide Using Disilane. Rapid Thermal Chemical Vapor Depo**	2	649
anism of the Elementary Electrochemical Processes Taking Place during Oxygen	**Evolution on the Lead Dioxide Electrode** Mech	11	3815
phite vs. Pt Inclusions in Graphite Hydrogen	**Evolution Reaction in Alkaline Solution Catalytic Influence of Pt Supported on Gra**	3	918
ctrodes Kinetics of the Hydrogen	**Evolution Reaction at Various Zr-Based Laves-Phase Hydrogen-Storage Alloy Ele**	8	2527
C Impedance Study Kinetics of the Hydrogen	**Evolution Reaction on RuO2 and IrO2 Oxide Electrodes in H2SO4 Solution: An A**	11	3676

		Issue	Page
Electron Traps and	**Excess** Current Induced by Hot-Hole Injection into Thin SiO2 Films	10	3377
Microelectrode Investigation of Oxygen Permeation in Perfluorinated Proton	**Exchange** Membranes with Different Equivalent Weights	3	927
Performance Data of a Proton	**Exchange** Membrane Fuel Cell Using H2/CO as Fuel Gas	12	3838
Surface	**Exchange** Properties of Ce0.9Gd0.1O2-x Coated with La1-xSrxFeyCo1-yO3-delta	10	L229
Dioxide Studied by X-Ray Photoelectron Spectroscopy Effects of Plasma	**Excitation** and Chemical Pretreatment on Adsorption of Tungsten Hexafluoride on	11	3670
Distribution in a Low Pressure SiH4:O2:He Chemical Vapor Deposition Reactor.	**Experimental** and Numerical Results Particle Size	10	3397
Materials for Electrochemical Capacitors. Theoretical and	**Experimental** Constraints	11	3791
Comparison of Modeling Predictions with	**Experimental** Data from Plastic Lithium-Ion Cells	6	1890
Induced Codeposition. I. An	**Experimental** Investigation of Ni-Mo Alloys	3	885
Blocking Inhibitors in Cathodic Leveling. II.	**Experimental** Investigation	12	3938
ition of Fe-Ni Alloys and Fe-Ni-SiO2 Composites under Potentiostatic Conditions.	**Experimental** Study and Mathematical Model Anomalous Codepos	7	2164
s by Noise Measurement An	**Experimental** Study of Iron Corrosion in Sulfuric Acid Solution Containing Inhibitor	11	3597
In Situ Infrared Studies of Polyvinyl Chloride Films	**Exposed** to H2/O2/Ar Downstream Microwave Plasmas	9	2896
Morphology and Structure of Oxide Films Formed on MgAl Alloys by	**Exposure** to Air and Water	8	2564
Effects of an	**External** Electric Field from a Substrate on Conductance of SnO2 Thin Films	4	1334
Physical Property Change of FeOOH(AD)1/4 during Lithium Insertion and	**Extraction**	9	2713
asma	**Extremely** High Etch Rates of In-Based III-V Semiconductors in BCl3/N2 Based Pl	10	3394

— F —

u H2 Cleaning Ultrathin Silicon Nitride Films	**Fabricated** by Single-Wafer Processing Using SiH2Cl2-NH3-H2 System and In Sit	4	1459
al-Semiconductor-Metal Photodetectors Electrochemically	**Fabricated** High-Barrier Schottky Contacts on n-InP and Their Application for Met	6	1945
Characteristics of Top-Gate Polysilicon Thin-Film Transistors	**Fabricated** on Fluorine-Implanted and Crystallized Amorphous Silicon Films	10	3302
Electrodeposited Silver Arrays	**Fabricated** Utilizing Self-Assembled Alkanethiolate Monolayer Photoresist	10	3117
A Novel Process for	**Fabricating** Conformal and Stable TiN-Based Barrier Films	12	L279
ng of Polyurethane-Based Electro-optic Polymer for Low Loss Optical Waveguide	**Fabrication** Optimized Oxygen Plasma Etchi	11	3648
ective Ion Etching of 6H-SiC in SF6/O2 and CF4/O2 with N2 Additive for Device	**Fabrication** R	3	1037
emical Biosensors	**Fabrication** and Characterization of Nanostructured Gold Electrodes for Electroch	12	3890
oluminescent Regions	**Fabrication** of a Porous Silicon Diode Possessing Distinct Red and Orange Electr	2	L42
s	**Fabrication** of Anatase Thin Films from Peroxo-Polytitanic Acid by Spray Pyrolysi	9	L191
	Fabrication of GaAs Microtips for Scanning Tunneling Microscopy by Wet Etching	8	2616
y	**Fabrication** of Thin Film LiCo0.5Ni0.5O2 Cathode for Li Rechargeable Microbatter	11	L268
	Factors Inducing Deterioration of InBO3:Tb by Electron Bombardment	5	1696
Metal Oxide Insertion Electrodes: A New Diagnostic Tool for Analysis of Capacity	**Fading** in Secondary Li/LiMn2O4 Cells FTIR Spectroscopy of	6	L136
A New Type of a Rocking-Chair Battery	**Family** Based on a Graphite Anode and a Polymer Cathode	2	L29
uctivity of Lithium Salts in Nonaqueous Solutions The Synthesis of a New	**Family** of Anion Receptors and the Studies of Their Effect on Ion Pair Dissociation	12	3825
The Dependence of Ring-Like Distributed Stacking	**Faults** on the Axial Temperature Gradient of Growing Czochralski Silicon Crystals	5	1648
Impact of	**Fe** and Cu Contamination on the Minority Carrier Lifetime of Silicon Substrates	9	3014
Oxidation and Steam Reforming of CH4 on Ni and	**Fe** Anodes under Low Humidity Conditions in Solid Oxide Fuel Cells	4	1161
ies for Oxygen Evolution Effects of Ni,	**Fe**, Cu, and Cr Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic Propert	5	1505
harge and Discharge Characteristics of Thermochargeable Galvanic Cells with an	**[Fe(CN)6]4-/[Fe(CN)6]3-** Redox Couple C	4	1305
XPS and STM Study of Passive Films Formed on	**Fe-22Cr(110)** Single-Crystal Surfaces	4	1182
Electrodeposition of	**Fe-C** Alloys from Baths Containing Dicarboxylic Acids with a Linear Alkyl Chain	8	2584
ental Study and Mathematical Model Anomalous Codeposition of	**Fe-Ni** Alloys and Fe-Ni-SiO2 Composites under Potentiostatic Conditions. Experim	7	2164
Mathematical Model Anomalous Codeposition of Fe-Ni Alloys and	**Fe-Ni-SiO2** Composites under Potentiostatic Conditions. Experimental Study and	7	2164
Acetaldehyde and Electricity from Ethanol	**Feasibility** Studies of a Fuel Cell for Cogeneration of Homogeneously Catalyzed	10	3058
Workpiece, Pattern, and	**Feature** Scale Current Distributions	2	486
Amines and Thiols on Iron Corrosion in Anhydrous Methanol Solution Containing	**FeCl3** Inhibition Effects of	12	3866
Interpretation of the Rationale for	**Feed** Modification in SCWO Systems	3	L59
Applications Simulations of a	**Feedback** Control Scheme for an Inductively Coupled Plasma Source for Etching	4	1375
Physical Property Change of	**FeOOH(AD)1/4** during Lithium Insertion and Extraction	9	2713
Power Conversion Efficiency, Electrode Separation, and Overpotential in the	**Ferricyanide/Ferrocyanide** Thermogalvanic Cell	8	2558
Electronic Structure of Passive Films Formed on Molybdenum-Containing	**Ferritic** Stainless Steels	10	3088
Chemical Diffusion Coefficient of Lithium in Carbon	**Fiber**	8	2606
trochemical and Photoelectrochemical Microscopy by Use of a Metallized Optical	**Fiber** Simultaneous Scanning Elec	12	3853
The Detection and Analysis of Electrochemical Damage in Bismaleimide/Graphite	**Fiber** Composites	2	449
Electric	**Field** Dependence of the Electron Capture Cross Section of Neutral Traps in SiO2	8	2687
Electrophoretic Deposition of ZnO:Zn Phosphor for	**Field** Emission Display Applications	12	3923
Effects of an External Electric	**Field** from a Substrate on Conductance of SnO2 Thin Films	4	1334
High Temperature Local Oxidation of Silicon	**Field** Isolation Morphological Characterization	11	L289
Oxide Growth Effects in Micron and Submicron	**Field** Regions. A Comparison Between Wet and Dry Oxidation	9	2953
Anodic Dissolution of Iron in a Magnetic	**Field** with Holographic Microphotography	12	L283
Isolated Submicrometer	**Filaments** Formed by Silicon Anodization in HF Solutions	5	L100
ophosphosilicate Glass Gap	**Fill** and Film Reflow Capability of Subatmospheric Chemical Vapor Deposited Bor	4	1414
Al-Ge Reflow Sputtering for Submicron Contact Hole	**Filling**	1	228
ctroscopy for Chemical Analysis of Cool White Phosphors Coated with SiO2 Thin	**Film** Electron Spe	1	302
Deflection Combined with Cyclic Voltammetry Studies of C60-Modified Electrode	**Film** Probe Beam	12	3874
Photoimage Formation in a TiO2 Particle-Incorporated Prussian Blue	**Film**	11	3462
acterization of Proton-Induced Color Transition in an Amorphous Tungsten Oxide	**Film** Char	7	2341
Preparation of Lead-Zirconium-Titanium	**Film** and Powder by Electrodeposition	1	97
A Transient Method for Measuring Diffusion Coefficients of Thin	**Film** Battery Electrodes. Results for LiyCoO2 and LixC6 Thin Films	6	L129
Growth and Resistivity Behavior of Copper	**Film** by Chemical Vapor Deposition	2	624
Study of the Redox Process of Poly(5-amino-1-naphthol) Thin	**Film** by In Situ Raman Spectroscopy	7	2116
l Dielectrics An SiO2	**Film** Deposition Technology Using Tetraethylorthosilicate and Ozone for Intermeta	5	1769
A New Humidity Sensor Using the Composite	**Film** Derived from Poly(o-phenylenediamine) and Poly(vinyl alcohol)	9	2925
Microcrystal Growth on Borophosphosilicate Glass	**Film** during High-Temperature Annealing	2	666
es In Situ Conductivity Measurements of LiCoO2	**Film** during Lithium Insertion/Extraction by Using Interdigitated Microarray Electrod	10	3157
Stress in Carbon	**Film** Electrodes during Li+ Electrochemical Intercalation	8	2417
Optical Switching of Y-Hydride Thin	**Film** Electrodes. A Remarkable Electrochromic Phenomenon	10	3348
n of Very Smooth Silicon at High Deposition Rates Silicon Nucleation and	**Film** Evolut n on Silicon Dioxide Using Disilane. Rapid Thermal Chemical Vapor	2	649
Orientation Control of Chemical Vapor Deposition TiN	**Film** for El r Applications	6	2059
Platinization of Shapable Electroconductive Polymer	**Film** for an Improved Glucose Sensor	10	3336
In Situ Optical Microscopy Investigations of Lithium and Sodium	**Film** Formation in Buffered Room Temperature Molten Salts	7	L145
romic Displays Poly(p-phenylene terephthalamide)	**Film** Immobilizing Oligomer Species as a Colored Matrix for Three-Color Electroch	9	L212
Fabrication of Thin	**Film** LiCo0.5Ni0.5O2 Cathode for Li Rechargeable Microbattery	11	L268
Proton Insertion into Ruthenium Oxide	**Film** Prepared by Pulsed Laser Deposition	3	1088
osilicate Glass Gap Fill and	**Film** Reflow Capability of Subatmospheric Chemical Vapor Deposited Borophosph	4	1414
Effects of RF Power on Plasma Phase Reactions and	**Film** Structure in Deposition of a-C:H by Styrene/Argon Discharge	4	1451
Nonphotosensitive, Vertically Redundant Two-Channel a-Si:H Thin	**Film** Transistor	4	1489
Horizontally Redundant, Split-Gate a-Si:H Thin	**Film** Transistors	8	2680
Electron Traps and Excess Current Induced by Hot-Hole Injection into Thin SiO2	**Films**	10	3377
Repassivation of Pits in Aluminum Thin	**Films**	6	1834
Adsorption of Chlorine on TiSi2: Application to Etching and Deposition of Silicide	**Films**	1	268
bility of Fluorine-Doped Plasma Enhanced Chemical Vapor Deposited SiO2 Thin	**Films** Dielectric Constant and Sta	6	2015
A Novel Process for Fabricating Conformal and Stable TiN-Based Barrier	**Films**	12	L279
ects of an External Electric Field from a Substrate on Conductance of SnO2 Thin	**Films** Eff	4	1334
Microstructure of Electrodeposited Cu-Ni Binary Alloy	**Films**	6	1978
Electrolyte Optimization for Cathodic Growth of Zinc Oxide	**Films**	3	L53
lectroless Nickel Deposition on Patterned Phosphonate and Carboxylate Polymer	**Films** Selective E	2	691
m Metal Interface. Comparison of Linear, Cross Linked, and Alkylated Electrolyte	**Films** Study of the Poly[oxymethylene oligo-(oxy-ethylene)]/Lithiu	4	1292
Transistors Fabricated on Fluorine-Implanted and Crystallized Amorphous Silicon	**Films** Characteristics of Top-Gate Polysilicon Thin-Film	10	3302
Coefficients of Thin Film Battery Electrodes. Results for LiyCoO2 and LixC6 Thin	**Films** A Transient Method for Measuring Diffusion	6	L129

			Issue	Page
xygen: Tetraethylorthosilicate Ratio Plasma-Enhanced Chemical Vapor Deposited	Films	Characterization of High O	3	1079
f 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione (H+hfac) with Iron and Iron Oxide Thin	Films	Reaction o	10	3257
Electrodeposition of Silver(II) Oxide	Films		9	2741
Optomechanical Studies of Lithium Intercalation in Amorphous Molybdenum Thin	Films		9	2822
High-Density Etching of Group III Nitride Ternary	Films		10	3285
Cathodic Electrodeposition of Nanocrystalline Titanium Dioxide Thin	Films		6	1847
roelectrochemical Investigations of Sol-Gel Derived Electrochromic Spinel Co3O4	Films	Structural and Spect	5	1532
Creation and Properties of Nitrogen Dangling Bond Defects in Silicon Nitride Thin	Films		11	3685
3 Coatings with n-Type Conductivity Produced by Air Annealing of CdSe-In Thin	Films	CdSe:In2O	9	2892
Countercation-Sensitive Electrochromism of Cobalt Hexacyanoferrate	Films		1	L10
ier Density on the Photocatalytic Activity of Microporous Semiconductor Electrode	Films	Photoelectrochemical Doping of TiO2 Particles and the Effect of Cha	11	3712
Colloidal Processing of BaCeO3-Based Electrolyte	Films		10	3235
Electrochromism in Sputtered WO3 Thin	Films		3	1050
he Effect of Preheating Treatment on Anodic Al2O3 Formed on Sputtered Al Thin	Films	T	3	984
Stress in Liquid-Phase Deposited Oxide	Films		8	2658
Shallow Angle X-Ray Diffraction from As-Deposited Diamond Thin	Films		3	1033
Distribution of Residual Stresses in Boron Doped p+ Silicon	Films		10	3369
ge Spectroscopic Study of the Cathodic Reduction of Artificial Iron Oxide Passive	Films	In Situ X-Ray Absorption Near-Ed	2	574
Electrodeposition of In-Se, Cu-Se, and Cu-In-Se Thin	Films		3	854
Remote Plasma Enhanced Chemical Vapor Deposition of Silicon	Films	at Low Temperatures from Si2H6-H2-SiF4	8	2640
Room Temperature Deposition of Silicon Dioxide	Films	by Ion-Assisted Plasma Enhanced Chemical Deposition	4	1443
Stabilizing Dielectric Constants of Fluorine-Doped SiO2	Films	by N2O-Plasma Annealing	1	381
In Situ Infrared Studies of Polyvinyl Chloride	Films	Exposed to H2/02/Ar Downstream Microwave Plasmas	9	2896
In Situ H2 Cleaning Ultrathin Silicon Nitride	Films	Fabricated by Single-Wafer Processing Using SiH2Cl2-NH3-H2 System and	4	1459
Porous Nickel Oxide/Nickel	Films	for Electrochemical Capacitors	1	124
Infrared Spectroscopic Analysis of Phosphosilicate Glass	Films	for Micromachining	3	968
Impurities in Chemical Bath Deposited CdS	Films	for Cu(In,Ga)Se2 Solar Cells and Their Stability	8	2662
Moisture Resistance in Annealed Borophosphosilicate Glass	Films	for Very Large Scale Integrated Circuit Applications	9	3032
Structure of Anodic	Films	Formed on Magnesium	3	L82
mperature by Chemical Vapor Deposition Characteristics of SiOF	Films	Formed Using Tetraethylorthosilicate and Fluorotriethoxysilane at Room Te	2	707
XPS and STM Study of Passive	Films	Formed on Fe-22Cr(110) Single-Crystal Surfaces	4	1182
Morphology and Structure of Oxide	Films	Formed on MgAl Alloys by Exposure to Air and Water	8	2564
Electronic Structure of Passive	Films	Formed on Molybdenum-Containing Ferritic Stainless Steels	10	3088
Fabrication of Anatase Thin	Films	from Peroxo-Polytitanic Acid by Spray Pyrolysis	9	L191
Improved Selenization Procedure to Obtain CuInSe2 Thin	Films	from Sequentially Electrodeposited Precursors	2	493
Freestanding Diamond Thin	Films	Grown on Glassy Carbon Substrates	7	L150
Leakage Current Mechanism of Amorphous and Polycrystalline Ta2O5	Films	Grown by Chemical Vapor Deposition	3	977
In Situ Quartz Crystal Microbalance Studies of Nickel Hydrous Oxide	Films	in Alkaline Electrolytes	1	37
Thermal Nitridation of SiO2	Films	in Ammonia: The Role of Hydrogen	4	1426
Etching SiO2	Films	in Aqueous 0.49% HF	9	2885
Thermal Nitridation of SiO2	Films	in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in the Initial Stages	9	2938
in Reoxidation Thermal Nitridation of SiO2	Films	in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in Further Stages and	9	2946
Reactive Ion Etching of Copper	Films	in an SiCl4, N2, Cl2, and NH3 Mixture	12	4089
Electrochemical Behavior of WO3	Films	in H3PO4/H2O Binary Mixtures	9	2789
netron Sputtering Thin	Films	of Amorphous Germanium-Carbon Alloy Prepared by Radio-Frequency Mag	12	4087
Electrochemical and Surface Spectroscopic Studies of Thin	Films	of Bismuth Ruthenium Oxide (Bi2Ru2O7)	11	3604
on and Charge-Trapping Characteristics of MOS Capacitors with Oxidized Nitride	Films	of Different Nitride Thicknesses under Positive Stress Bias Conducti	1	368
Investigation on Copper Corrosion in Thin	Films	of Sulfuric Acid	1	139
An X-Ray Absorption Near-Edge Spectroscopic Study of the Structure of Passive	Films	on Amorphous Al-Fe-Ce Alloys	2	614
Nature of Charge Traps in Anode Oxide	Films	on GaAs	3	1109
Electro-optical Charge Trapping in Zinc Porphyrin	Films	on Indium Tin Oxide and /SiO2/Si	6	1914
Surface-Enhanced Raman Spectroelectrochemical Studies of Corrosion	Films	on Iron in Aqueous Carbonate Solution	7	2148
All-Solid-State Measurements of Electrical Properties of Passive	Films	on Lithium	5	1690
Formation Mechanism and Anticorrosive Properties of Thin Siloxane	Films	on Metal Surfaces	1	251
ctrochemical and X-Ray Photoelectron Spectroscopy Characterization of Surface	Films	on MnNi3.5Al0.8Co0.7 Ele	8	2422
ition Using Tetraethoxysilane and Ozone Characteristics of Silicon Dioxide	Films	on Patterned Substrates Prepared by Atmospheric-Pressure Chemical Vapo	6	1715
Hydrothermal BaTiO3 Thin	Films	on Ti-Covered Silicon: Characterization and Growth Mechanism	3	1133
Electrochemical Behavior of Thin Anodic Oxide	Films	on Zircaloy-4. Role of the Mobile Defects	12	3902
Electrical Characteristics of Postoxidation Annealed Very Thin SiO2	Films.	Potential Benefits of Rapid Thermal Processing	1	356
ium Stability of TiN	Films	Prepared by Chemical Vapor Deposition Using Tetrakis-dimethylamino Titan	9	L186
Physicochemical Properties of SnO2-Sb2O5	Films	Prepared by the Spray Pyrolysis Technique	1	203
Fluorine-Doped Tin Dioxide Thin	Films	Prepared by Radio-Frequency Magnetron Sputtering	1	283
Electrochromic Properties of Cobalt Oxide Thin	Films	Prepared by Chemical Vapor Deposition	4	1383
Electrochromic Properties of Iron Oxide Thin	Films	Prepared by Chemical Vapor Deposition	5	1675
d Chromium Hexacarbonyl Chromium Oxide Thin	Films	Prepared by Chemical Vapor Deposition from Chromium Acetylacetonate an	6	1956
The Photoelectrochemical Response of TiO2-WO3 Mixed Oxide	Films	Prepared by Thermal Oxidation of Titanium Coated with Tungsten	7	2226
ueous Electrolytes Electrochromic Behavior of Molybdenum Trioxide Thin	Films,	Prepared by Thermal Oxidation of Electrodeposited Molybdenum Trisulfide,	10	3109
Electrochemical Behavior of LiMn2O4 and LiCoO2 Thin	Films	Produced with Pulsed Laser Deposition	6	1821
Electrochemically Reduced Polycrystalline Tin Oxide Thin	Films.	Surface Analysis and Electroplated Copper Adhesion	6	2046
de Methods Studies of the Formation of Cerium-Rich Protective	Films	Using X-Ray Absorption Near-Edge Spectroscopy and Rotating-Disk-Electro	1	147
Low Pressure Chemical Vapor Deposition of Si1-xGex	Films	Using Si2H6 and GeH4 Source Gases	1	363
ctions Properties of Fluorinated Silicon Oxide	Films	Using Fluorotriethoxysilane for Interlayer Dielectrics in Multilevel Interconne	3	1084
s Oxide and Silane Formation of High-Quality Nitrided Silicon Dioxide	Films	Using Electron-Cyclotron Resonance Chemical Vapor Deposition with Nitrou	5	1681
Micropattern Formation on ZnO	Films	Using a Photodissolution Reaction	11	3743
Flow-Induced Composition Modulated NiFe Thin	Films	with Nanometer-Scale Wavelengths	3	873
Electrochemistry of Chemical Vapor Deposited Tungsten	Films	with Relevance to Chemical Mechanical Polishing	12	4095
The Effect of Ultrafine Pigment Color	Filters	on Cathode Ray Tube Brightness, Contrast, and Color Purity	3	1063
Preparation and Characterization of	Fine-Grain	Yttrium-Based Phosphors by Sol-Gel Process	1	189
terlayer Dielectric	Fine-line	Patterning of Parylene-n by Reactive Ion Etching for Application as an In	6	1974
iMn2O4-Based Cathode Materials Prepared by the Pechini Process. Influence of	Firing	Temperature and Dopants Electrochemical Characteristics of Spinel	11	3890
oscopy and Optical Scattering	First	Observations of 0.1 um Size Particles on Si Wafers Using Atomic Force Micr	12	4125
Fuel Cell Cathodes	Five	Percent Platinum-Tungsten Oxide-Based Electrocatalysts for Phosphoric Acid	12	3842
Secondary Reactions	Float	Charging of Valve-Regulated Lead-Acid Batteries: A Balancing Act Between	3	790
Convective Diffusion to a Microdisk Sensor Subject to Uniform Shear	Flow		1	197
al Reflection-Infrared Spectroscopy Theoretical Aspects of Laminar	Flow	in a Channel-Type Electrochemical Cell as Applied to In Situ Attenuated Tot	10	3160
The Combined Influence of Interfacial Reaction Resistance and Fluid	Flow	on Microelectrode Sensors	7	2252
In Situ Spectroscopy in the Presence of Convective	Flow	under Steady-State Conditions: A Unified Mathematical Formalism	11	3539
velengths	Flow-Induced	Composition Modulated NiFe Thin Films with Nanometer-Scale Wa	3	873
The Combined Influence of Interfacial Reaction Resistance and	Fluid	Flow on Microelectrode Sensors	7	2252
Enhanced Etching Rate of Silicon in	Fluoride	Containing Solutions at pH 6.4	8	2683
Etching Kinetics of Silicon Dioxide in Aqueous	Fluoride	Solutions. A Surface Complexation Model	4	1339
ochemical Insertion of Lithium Cations Vanadium Oxide	Fluoride-Graphite	Intercalation Compounds: Structural Characteristics and Electr	7	2093
Studies of Niobium Electrocrystallization Phenomena in Molten	Fluorides		8	1870
Electrochemical Behavior of	Fluorinated	Fullerenes C60Fx and C70Fx	9	L214
Solid-State Lithium Cells Based on	Fluorinated	Fullerene Cathodes	7	2267
cs in Multilevel Interconnections Properties of	Fluorinated	Silicon Oxide Films Using Fluorotriethoxysilane for Interlayer Dielectri	3	1084
	Fluorine	Diffusion from Fluorosilicate Glass	7	L156
Etching of Tantalum in	Fluorine-Containing	High Density Plasmas	10	3286
Dielectric Constant and Stability of	Fluorine-Doped	Plasma Enhanced Chemical Vapor Deposited SiO2 Thin Films	6	2015
Stabilizing Dielectric Constants of	Fluorine-Doped	SiO2 Films by N2O-Plasma Annealing	1	381
Sputtering	Fluorine-Doped	Tin Dioxide Thin Films Prepared by Radio-Frequency Magnetron	1	283
Characteristics of Top-Gate Polysilicon Thin-Film Transistors Fabricated on	Fluorine-Implanted	and Crystallized Amorphous Silicon Films	10	3302

		Issue	Page
The Redox Chemistry of Niobium(V)	Fluoro and Oxofluoro Complexes in LiF-NaF-KF Melts	6	1793
Fluorine Diffusion from	Fluorosilicate Glass	7	L166
Characteristics of SiOF Films Formed Using Tetraethylorthosilicate and	Fluorotriethoxysilane at Room Temperature by Chemical Vapor Deposition	2	707
Properties of Fluorinated Silicon Oxide Films Using	Fluorotriethoxysilane for Interlayer Dielectrics in Multilevel Interconnections	3	1084
ew Fuel Cell Electrocatalyst Based on Highly Porous Carbonized Polyacrylonitrile	Foam with Very Low Platinum Loading A N	1	L7
Kinetics of Particle Coarsening at Gold Electrode/Electrolyte Solution Interfaces	Followed by In Situ Scanning Tunneling Microscopy	2	486
bstrates Copper Decoration	Followed by TEM Observation Identifying Defects in the Buried Oxides of SOI Su	7	2357
ct Wafer Bonding An Atomic	Force Microscopy Study on the Roughness of Silicon Wafers Correlated with Dire	7	2365
oys In Situ Atomic	Force Microscopy Observations of the Corrosion Behavior of Aluminum-Copper All	8	2471
Deposition onto Gold Surfaces by Scaling and Spectral Analysis of In Situ Atomic	Force Microscopic Images Mechanistic Study of Copper	10	3122
The Application of Atomic	Force Microscopy for the Study of Li Deposition Processes	11	3826
First Observations of 0.1 um Size Particles on Si Wafers Using Atomic	Force Microscopy and Optical Scattering	12	4125
olytic Cells A Study of the Transport of	Formaldehyde and Ethylene Glycol Through Ion Permeable Membranes in Electr	1	175
Photolytic and Photocatalytic Destruction of	Formaldehyde in Aqueous Media	5	1562
ence of Convective Flow under Steady-State Conditions: A Unified Mathematical	Formalism In Situ Spectroscopy in the Pres	11	3539
Photoluminescence in the Earliest stages of Porous Silicon	Formation	8	L164
raphite Anode for Lithium Ion Batteries Chemically Bonded SEI and Nanochannel	Formation Improved G	1	L4
Protrusion	Formation at the Edges of Ion Implanted Regions	6	L118
Investigation of Island	Formation during Through-Mask Electrochemical Micromachining	7	2306
Photoimage	Formation in a TiO2 Particle-Incorporated Prussian Blue Film	11	3462
In Situ Optical Microscopy Investigations of Lithium and Sodium Film	Formation in Buffered Room Temperature Molten Salts	7	L145
al Surfaces	Formation Mechanism and Anticorrosive Properties of Thin Siloxane Films on Met	1	251
mories A Dislocation	Formation Model of Trench-Induced Dislocations in Dynamic Random Access Me	1	210
pectroscopy and Rotating-Disk-Electrode Methods Studies of the	Formation of Cerium-Rich Protective Films Using X-Ray Absorption Near-Edge S	1	147
In Situ	Formation of Coated and Composite Palladium Particles via Spray Pyrolysis	11	3762
Resonance Chemical Vapor Deposition with Nitrous Oxide and Silane	Formation of High-Quality Nitrided Silicon Dioxide Films Using Electron-Cyclotron	5	1681
Electrochemical	Formation of Polyaniline in Selenic Acid	10	3079
Initiation and	Formation of Porous GaAs	10	3316
eam Deposited Boron Sources	Formation of Shallow Junctions during Rapid Thermal Processing from Electron-B	9	2981
Delaminations of Thin Layers by High Dose Hydrogen Ion Implantation in Silicon.	Formation of Thin Silicon on Insulator Silicon Layers	8	L166
Thermodynamics of the	Formation of TiN from TiCl4-NH3-H2 on a Patterned Oxidized Silicon Substrate	10	3251
Shallow Contact Metallization Epitaxial C49-TiSi2	Formation on (100)Si Substrate Using TiNx and Its Electrical Characteristics as a	6	1984
abit of Cu2O Particles Single-Crystal Cu2O	Formation on Amorphous Carbon Electrode and Effect of Anions on the Crystal H	7	2106
Micropattern	Formation on ZnO Films Using a Photodissolution Reaction	11	3743
t on the Electrical Properties Defect Generation during Epitaxial CoSi2	Formation Using Co/Ti Bilayer on Oxide Patterned (100)Si Substrate and Its Effec	3	L56
trometry Study	Formic Acid Oxidation in a Polymer Electrolyte Fuel Cell. A Real-Time Mass-Spec	7	L158
esistance Determination of the Critical Temperature for	Forming a Chromium-Rich Oxide on AISI 430 Stainless Steel and Its Corrosion R	8	2493
Proton Conductivity of Nafion 117 as Measured by a	Four-Electrode AC Impedance Method	4	1254
el Cell Anodes and Cathodes In Situ	Fourier Transform Infrared-Diffuse Reflection Spectroscopy of Direct Methanol Fu	10	3053
dified Electrode and the Application to the Electroreduction of CO2 In Situ	Fourier Transform Infrared Spectroscopic Studies on a Metal Complex-Immobilize	11	3606
Critical Hydrogen Concentration for the Brittle	Fracture of AISI 430 Stainless Steel	9	2736
	Freestanding Diamond Thin Films Grown on Glassy Carbon Substrates	7	L150
nalysis of Electrochemical Noise Data for Polymer Coated Steel in the Time and	Frequency Domains A	12	L286
r mc-Si/a-SiCx Emitter in a Silicon Heterojunction Bipolar Transistor with a Cutoff	Frequency of 47 GHz Double-Laye	6	1949
Mechanism of AC Electrical Transport of Carriers in	Freshly Formed and Aged Porous Silicon	12	3943
icrostructural Properties of Helium Implanted Void Layers in Silicon as Related to	Front-Side Gettering M	2	725
Analysis of Capacity Fading in Secondary LiMn2O4 Cells	FTIR Spectroscopy of Metal Oxide Insertion Electrodes: A New Diagnostic Tool for	6	L136
Oxygen Fuel Cell In Situ	FTIR-Diffuse Reflection Spectroscopy of the Anode Surface in a Direct Methanol/	2	L21
m with Very Low Platinum Loading A New	Fuel Cell Electrocatalyst Based on Highly Porous Carbonized Polyacrylonitrile Foa	1	L7
High Performance Direct Methanol Polymer Electrolyte	Fuel Cells	1	L12
iffuse Reflection Spectroscopy of the Anode Surface in a Direct Methanol/Oxygen	Fuel Cell In Situ FTIR-D	2	L21
A Hydrogen Sulfide	Fuel Cell Using a Proton-Conducting Solid Electrolyte	3	L55
A Gas Distributor for Proton-Exchange-Membrane	Fuel Cells	5	L103
Interpretation of the Power Response of a	Fuel Cell with a Quadratic Logistic Differential Equation	6	L113
Formic Acid Oxidation in a Polymer Electrolyte	Fuel Cell. A Real-Time Mass-Spectrometry Study	7	L158
stance Microstructure-Property Relations of Solid Oxide	Fuel Cell Cathodes and Current Collectors. Cathodic Polarization and Ohmic Resi	2	530
Characterization of Polymer Electrolyte	Fuel Cells Using AC Impedance Spectroscopy	2	587
Monte Carlo Simulations of Conductivity of Composite Electrodes for Solid Oxide	Fuel Cells	3	1123
ming of CH4 on Ni and Fe Anodes under Low Humidity Conditions in Solid Oxide	Fuel Cells Oxidation and Steam Refor	4	1161
ermal Stability of Proton Conducting Acid Doped Polybenzimidazole in Simulated	Fuel Cell Environments Th	4	1225
l-Time Mass Spectrometric Study of the Methanol Crossover in a Direct Methanol	Fuel Cell Rea	4	1233
Thermal Stability of Nafion in Simulated	Fuel Cell Environments	5	1498
Characterization of Ni-YSZ Anode Degradation for Substrate-Type Solid Oxide	Fuel Cells	5	1521
Characterization of Solid Oxide	Fuel Cells by Use of an Internal Pt Voltage Probe	5	1558
cal Properties of Doped Lanthanum Chromites as Interconnectors for Solid Oxide	Fuel Cells Electrochemi	5	1583
A Three-Phase Homogeneous Model for Porous Electrodes in Molten-Carbonate	Fuel Cells	5	1617
High-Performance Electrode for Medium-Temperature Operating Solid Oxide	Fuel Cells. Polarization of Ceria-Based Anode with Highly Dispersed Ruthenium C	5	1700
Operating Properties of Solid Oxide	Fuel Cells Using BaCe0.8Gd0.203-Alpha Electrolyte	6	1886
Monte Carlo Simulations of Polarization Resistance of Composite Solid Oxide	Fuel Cells for Electrodes	6	1930
Systematic Theoretical Study of Alloys of Platinum for Enhanced Methanol	Fuel Cell Performance	6	2075
roperties of Co, Pt, and Pt-Co on Carbon for the Reduction of Oxygen in Alkaline	Fuel Cells Electrocatalytic P	7	2152
Carbon Support in the Catalyst Layer on the Performance of Polymer-Electrolyte	Fuel Cells Effects of Microstructure of	7	2245
um Calcium Chromite-Lanthanum Strontium Manganite Interfaces in Solid Oxide	Fuel Cells Stability of Lanthan	7	2332
ffect of Methanol Crossover in a Liquid-Feed Polymer Electrolyte Direct Methanol	Fuel Cell E	8	2601
Perfluoro-ethylene-1,2-bis-phosphonic Acid	Fuel Cell Electrolyte	9	2766
ucture A New Candidate for the Solid Oxide	Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Transport Properties and Defect Str	9	2983
itu Fourier Transform Infrared-Diffuse Reflection Spectroscopy of Direct Methanol	Fuel Cell Anodes and Cathodes In S	10	3083
city from Ethanol Feasibility Studies of a	Fuel Cell for Cogeneration of Homogeneously Catalyzed Acetaldehyde and Electri	10	3088
Direct Methanol	Fuel Cell Cathodes with Sulfur and Nitrogen-Based Carbon Functionality	10	3073
oped LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic	Fuel Cell Characterization of Sr-D	11	3630
Chromium Vapor Species over Solid Oxide	Fuel Cell Interconnect Materials and Their Potential for Degradation Processes	11	3842
ic Concentration Overvoltage on Power Generation Characteristics of Solid Oxide	Fuel Cells Effect of Anod	11	3899
Performance Data of a Proton Exchange Membrane	Fuel Cell Using H2/CO as Fuel Gas	12	3838
ive Percent Platinum-Tungsten Oxide-Based Electrocatalysts for Phosphoric Acid	Fuel Cell Cathodes F	12	3842
Self-Humidifying Polymer Electrolyte Membranes for	Fuel Cells	12	3847
Analysis of the Electrochemical Characteristics of a Direct Methanol	Fuel Cell Based on a Pt-Ru/C Anode Catalyst	12	3980
Performance Data of a Proton Exchange Membrane Fuel Cell Using H2/CO as	Fuel Gas	12	3838
The Chemical State of Sulfur in Carbon-Supported	Fuel-Cell Electrodes	3	813
Solid-State Lithium Cells Based on Fluorinated	Fullerene Cathodes	7	2267
Electrochemical Behavior of Fluorinated	Fullerenes C60Fx and C70Fx	9	L214
Direct Methanol Fuel Cell Cathodes with Sulfur and Nitrogen-Based Carbon	Functionality	10	3073
A Model for the Gas-Phase Chemistry Occurring in a	Furnace N2O Oxynitride Process	5	1753
Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in	Further Stages and in Reoxidation Thermal	9	2946

— G —

Effects of Small Amounts of Silver Added to NiGe Ohmic Contacts to n-Type	GaAs	5	1705
Nature of Charge Traps in Anode Oxide Films on	GaAs	3	1109
Initiation and Formation of Porous	GaAs	10	3316
C12-Based Dry Etching of	GaAs, AlGaAs, and GaP	6	2010
Wet Chemical Digital Etching of	GaAs at Room Temperature	11	3882
Fabrication of	GaAs Microtips for Scanning Tunneling Microscopy by Wet Etching	8	2616

		Issue	Page
Electrochemical Deposition of Pd, Ti, and Ge for Applications in	**GaAs** Technology	4	L73
Thermodynamic Analysis of	**GaAs**1-xPx Vapor Phase Epitaxy	8	2631
Superior Oxygen Ion Conductivity of Lanthanum	**Gallate** Doped with Strontium and Magnesium	5	1644
Charge and Discharge Characteristics of Thermochargeable	**Galvanic** Cells with an [Fe(CN)6]4-/[Fe(CN)6]3- Redox Couple	4	1305
Solid Electrolyte Based	**Galvanic** Cell for Measuring the Antimony Concentration in Molten Zinc	8	2498
	Galvanic Corrosion of Zinc and Its Alloys	4	1472
	Galvanic Interaction Between Manganese Dioxide and Pyrite	12	3987
Ultraviolet Depth Lithography and	**Galvanoforming** for Micromachining	1	237
A Model for	**Galvanostatic** Deposition of Nickel Hydroxide	7	2319
ence of Heavily Doped p-Type Porous Silicon under Electrochemical Oxidation in	**Galvanostatic** Regime Electroluminesc	3	1055
Crystal Growth of	**gamma-Lithium** Aluminate in Molten Li/K Carbonates	9	2776
Dislocation Etch Pits in	**GaN** Epitaxial Layers Grown on Sapphire Substrates	1	L17
Low Energy Electron-Enhanced Etching of	**GaN/Si** in Hydrogen Direct Current Plasma	11	L201
C12-Based Dry Etching of GaAs, AlGaAs, and	**GaP**	6	2010
Morphology and Strongly Enhanced Photoresponse of	**GaP** Electrodes Made Porous by Anodic Etching	1	308
Borophosphosilicate Glass	**Gap** Fill and Film Reflow Capability of Subatmospheric Chemical Vapor Deposited	4	1414
Greatly Enhanced Sub-Bandgap Photocurrent in Porous	**GaP** Photoanodes	3	1137
rformance Data of a Proton Exchange Membrane Fuel Cell Using H2/CO as Fuel	**Gas** Pe	12	3838
a-Based Anode with Highly Dispersed Ruthenium Catalysts in (H2 + CO2 + H2O)	**Gas** High-Performance Electrode for Medium-Temperature Operating Solid	6	1700
A Kinetic Study of Spike Peaks Observed under Pressurized Oxidant	**Gas** Atmospheres in Molten Alkali Carbonates	7	2318
Si Wafer Etching with Synchrotron Radiation in a CF4	**Gas** Atmosphere	11	3764
A	**Gas** Distributor for Proton-Exchange-Membrane Fuel Cells	5	L103
drogen Electroadsorption from the Electrolyte with Hydrogen Adsorption from the	**Gas** Phase Comparison of Hy	4	1240
In Situ Optical Analysis of the	**Gas** Phase during the Deposition of Silicon Carbide from Methyltrichlorosilane	5	1684
Selective CO Detection by Using Indium Oxide-Based Semiconductor	**Gas** Sensor	2	L36
Nature of Sensitivity Promotion in Pd-Loaded SnO2	**Gas** Sensor	7	L148
Capacitive	**Gas** Sensor of Mixed Oxide CoO-In2O3 to Selectively Detect Nitrogen Monoxide	8	1908
tion The Effect of	**Gas-Phase** Additives C2H4, C2H6, and C2H2 on SiH4/O2 Chemical Vapor deposi	4	1365
A Model for the	**Gas-Phase** Chemistry Occurring in a Furnace N2O Oxynitride Process	5	1753
CH3OH Modeling and Characterization of	**Gas-Phase** Etching of Thermal Oxide and TEOS Oxide Using Anhydrous HF and	3	1099
Recovery of Bromine from Waste	**Gas-Phase** Hydrogen Bromide Streams Using an Electrolytic Membrane	9	L184
nal Chemistry Predictions of Kinetics and Major Reaction Pathways for Germane	**Gas-Phase** Reactions Computatio	8	2646
ed by a Sol-Gel Process Amperometric	**Gas-Phase** Sensor for the Determination of Ammonia in a Solid-State Cell Prepar	6	L126
re Chemical Vapor Deposition of Si1-xGex Films Using Si2H6 and GeH4 Source	**Gases** Low Pressu	1	383
A 0.25 um MOSFET Technology Using In Situ Rapid Thermal	**Gate** Dielectrics	2	744
que Identification of MOS	**Gate** Dielectric Breakdown Spot Using High Selectivity C1 Radical Etching Techni	8	2891
Barrier Height Lowering and Instability of	**Gate** Oxides Due to Dilute Hydrofluoric Acid Pretreatment	3	973
Repair of Plasma Etch Related	**Gate** Perimeter Damage Using Low Temperature Oxidation	2	629
Luminescence of Mn4+ in the Distorted Perovskite	**Gd2MgTiO6**	9	L203
m Metaborate Host Lattice The Intermediate Role of the	**Gd3+** Ions in the Efficiency of the Host-Sensitized Luminescence in the Lantharu	1	330
Electrochemical Deposition of Pd, Ti, and	**Ge** for Applications in GaAs Technology	4	L73
Low Pressure Chemical Vapor Deposition of Si1-xGex Films Using Si2H6 and	**GeH4** Source Gases	1	383
The Viability of	**GeH4-Based** In Situ Clean for Low Temperature Silicon Epitaxial Growth	7	2387
Inorganic Electrolyte Solutions and	**Gels** for Rechargeable Lithium Batteries	9	L209
Effect of Anodic Concentration Overvoltage on Power	**Generation** Characteristics of Solid Oxide Fuel Cells	11	3899
ned (100)Si Substrate and Its Effect on the Electrical Properties Defect	**Generation** during Epitaxial CoSi2 Formation Using Co/Ti Bilayer on Oxide Patter	3	L56
	Generation of Si-SiO2 Interface States at Surface Potentials near 0.4 and 0.7 eV	11	3757
omputational Chemistry Predictions of Kinetics and Major Reaction Pathways for	**Germane** Gas-Phase Reactions C	8	2646
Thin Films of Amorphous	**Germanium-Carbon** Alloy Prepared by Radio-Frequency Magnetron Sputtering	12	4087
al Properties of Helium Implanted Void Layers in Silicon as Related to Front-Side	**Gettering** Microstructur	2	725
The Mechanisms of Iron	**Gettering** in Silicon by Boron Ion-Implantation	4	1406
Contribution of Diffusion Interstitial Injection to	**Gettering** of Metallic Impurities in Silicon	1	381
ow Capability of Subatmospheric Chemical Vapor Deposited Borophosphosilicate	**Glass** Gap Fill and Film Refl	4	1414
l and Physical Characterization of Tetraethylorthosilicate-O3 Borophosphosilicate	**Glass** Electrica	10	3368
Fluorine Diffusion from Fluorosilicate	**Glass**	7	L186
Diffusion of Oxygen in Silica	**Glass**	8	1982
Phase Transformation and Lattice Strain of alpha-AgI Stabilized in Superionic	**Glass**	2	687
Stress Reduction in Anodically Bonded Silicon and Borosilicate	**Glass** by Thermal Treatment	4	1409
Microcrystal Growth on Borophosphosilicate	**Glass** Film during High-Temperature Annealing	2	686
Infrared Spectroscopic Analysis of Phosphosilicate	**Glass** Films for Micromachining	3	968
Moisture Resistance in Annealed Borophosphosilicate	**Glass** Films for Very Large Scale Integrated Circuit Applications	9	3032
Microstructural Effects on Conduction Properties of Na5YSi4O12-Type	**Glass-Ceramic** Na+-Fast Ionic Conductors	7	2180
Freestanding Diamond Thin Films Grown on	**Glassy** Carbon Substrates	7	L150
Superprotonic Conductors of	**Glassy** Zirconium Phosphates	1	144
Electrochemical Oxidation of	**Glucose** on Single Crystal and Polycrystalline Gold Surfaces in Phosphate Buffer	3	759
Platinization of Shapable Electroconductive Polymer Film for an Improved	**Glucose** Sensor	10	3336
A Study of the Transport of Formaldehyde and Ethylene	**Glycol** Through Ion Permeable Membranes in Electrolytic Cells	1	175
The Anodic Behavior of Azide Ions on	**Gold** and Platinum Electrodes in Neutral Electrolyte	6	1827
ling Microscopy Kinetics of Particle Coarsening at	**Gold** Electrode/Electrolyte Solution Interfaces Followed by In Situ Scanning Tunne	2	488
Piezoelectric Detection of Changes in Surface Energy of	**Gold** Electrode in Perchlorate Solutions Containing Iodide Ions	3	899
Response of the Electrochemical Quartz Crystal Microbalance for	**Gold** Electrodes in the Double-Layer Region	7	2240
Fabrication and Characterization of Nanostructured	**Gold** Electrodes for Electrochemical Biosensors	12	3890
The Electrochemical Study on the Dissolution Behavior of	**Gold** in Ammoniacal Solutions at Temperatures above 100 C	6	1875
Electrochemical Oxidation of Glucose on Single Crystal and Polycrystalline	**Gold** Surfaces in Phosphate Buffer	3	759
ic Images Mechanistic Study of Copper Deposition onto	**Gold** Surfaces by Scaling and Spectral Analysis of In Situ Atomic Force Microscop	10	3122
Spectrophotometric and Electrochemical Study of	**Gold-Iodide** in Aqueous Borate Medium	11	3477
e Dependence of Ring-Like Distributed Stacking Faults on the Axial Temperature	**Gradient** of Growing Czochralski Silicon Crystals Th	5	1648
	Grain Size-Internal Stress Relationship in Iron-Nickel Alloy Electrodeposits	10	3327
Nano-Trenched Local Oxidation of Silicon Isolation Using Island Polysilicon	**Grains**	2	639
Density of States Calculations of Small Diameter Single	**Graphene** Sheets	11	L262
Structure and Lithium Intercalation Properties of Synthetic and Natural	**Graphite**	11	3466
aline Solution Catalytic Influence of Pt Supported on Graphite vs. Pt Inclusions in	**Graphite** Hydrogen Evolution Reaction in Alk	3	919
Microstructural Characterization of Lithiated	**Graphite**	6	L120
Dimethyl Carbonate Mixtures A Comparative Study of Synthetic	**Graphite** and Li Electrodes in Electrolyte Solutions Based on Ethylene Carbonate-	12	3809
el Formation Improved	**Graphite** Anode for Lithium Ion Batteries Chemically Bonded SEI and Nanochann	1	L4
A New Type of a Rocking-Chair Battery Family Based on a	**Graphite** Anode and a Polymer Cathode	2	L29
An Impedance Study of the Kinetics and Mechanism of the Anodic Reaction on	**Graphite** Anodes in Saturated Cryolite-Alumina Melts	6	1840
Use of Chloroethylene Carbonate as an Electrolyte Solvent for a	**Graphite** Anode in a Lithium-Ion Battery	7	2230
ts of the Organic Solvent on the Electrochemical Lithium Intercalation Behavior of	**Graphite** Electrode Effec	2	L26
All-Solid-State Electric Double-Layer Capacitor with Isotropic High-Density	**Graphite** Electrode and Polyethylene Oxide/LiClO4 Polymer Electrolyte	12	3982
en Evolution Reaction in Alkaline Solution Catalytic Influence of Pt Supported on	**Graphite** vs. Pt Inclusions in Graphite Hydrog	3	919
Effect of Mechanical Grinding on the Lithium Intercalation Process in	**Graphites** and Soft Carbons	12	3959
	Greatly Enhanced Sub-Bandgap Photocurrent in Porous GaP Photoanodes	3	1137
Synthesis and Cathodoluminescent Performance of	**Green-Emitting** SrS:Mn Phosphors	7	2328
Effect of Mechanical	**Grinding** on the Lithium Intercalation Process in Graphites and Soft Carbons	12	3959
High-Density Etching of	**Group** III Nitride Ternary Films	10	3285
ylene-Tetrafluoroethylene-Copolymer-Based Membrane Containing Sulfonic Acid	**Group** Prepared by RIGP Proton Transport Through Polyeth	9	2795
In Situ Monitoring of	**Grouted** Electrolytes	4	1214
ce of Ring-Like Distributed Stacking Faults on the Axial Temperature Gradient of	**Growing** Czochralski Silicon Crystals The Dependen	5	1648
Leakage Current Mechanism of Amorphous and Polycrystalline Ta2O5 Films	**Grown** by Chemical Vapor Deposition	3	977
cts of Postdeposition Heat-Treatment on Morphology and Microstructure of CdTe	**Grown** by Electrodeposition Effe	2	517
Freestanding Diamond Thin Films	**Grown** on Glassy Carbon Substrates	7	L150

		Issue	Page
Dislocation Etch Pits in GaN Epitaxial Layers	**Grown on Sapphire Substrates**	1	L17
The Direct Observation of	**Grown-in Laser Scattering Tomography Defects in Czochralski Silicon**	10	L243
The Viability of GaH4-Based In Situ Clean for Low Temperature Silicon Epitaxial	**Growth**	7	2387
	Growth and Resistivity Behavior of Copper Film by Chemical Vapor Deposition	2	624
H2 Cleaning of Silicon Wafers before Low-Temperature Epitaxial	**Growth by Ultrahigh Vacuum/Chemical Vapor Deposition**	7	2381
Wet and Dry Oxidation	Oxide **Growth Effects in Micron and Submicron Field Regions. A Comparison Between**	9	2953
Si/SiO2 Interface Region	Oxide **Growth Enhancement Related to Annealing Induced Arsenic Accumulation in the**	1	L16
	Oxide **Growth Enhancement on Highly n-Type Doped Silicon under Steam Oxidation**	4	1434
Hydrothermal BaTiO3 Thin Films on Ti-Covered Silicon: Characterization and	**Growth Mechanism**	3	1133
Influence of the Initial Electrochemical Potential on the	**Growth Mechanism and Properties of Anodic Oxides on (100) Si**	9	2931
Influence of Cooling Condition during Crystal	**Growth of CZ-Si on Oxide Breakdown Property**	10	3383
Crystal	**Growth of gamma-Lithium Aluminate in Molten Li/K Carbonates**	9	2776
Steady-State	**Growth of NiO Scales on Ceria-Coated Polycrystalline Nickel**	9	3000
Thermodynamic Heat Transfer and Mass Transport Modeling of the Sublimation	**Growth of Silicon Carbide Crystals**	11	3727
Kinetics of Oxidation Processes on Lead Electrode in H2SO4. III. A Study of the	**Growth of the PbO Layer by Linear Sweep Voltammetry**	4	1157
Cause of Aligned-Orientation	**Growth of Titanium Silicide in Plasma Enhanced Chemical Vapor Deposition**	11	3778
Electrolyte Optimization for Cathodic	**Growth of Zinc Oxide Films**	3	L53
Microcrystal	**Growth on Borophosphosilicate Glass Film during High-Temperature Annealing**	2	666
A Model for Nanolaminated	**Growth Patterns in Zn and Zn-Co Electrodeposits**	5	1677

— H —

Reaction of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione	**(H+hfac) with Iron and Iron Oxide Thin Films**	10	3257
Polarization of Ceria-Based Anode with Highly Dispersed Ruthenium Catalysts in	**(H2 + CO2 + H2O) Gas High-Performance Electrode for Medium-Temperat**	5	1700
abricated by Single-Wafer Processing Using SiH2Cl2-NH3-H2 System and In Situ	**H2 Cleaning Ultrathin Silicon Nitride Films F**	4	1459
gh Vacuum/Chemical Vapor Deposition	**H2 Cleaning of Silicon Wafers before Low-Temperature Epitaxial Growth by Ultrahi**	7	2381
In Situ Infrared Studies of Polyvinyl Chloride Films Exposed to	**H2/02/Ar Downstream Microwave Plasmas**	9	2896
Performance Data of a Proton Exchange Membrane Fuel Cell Using	**H2/CO as Fuel Gas**	12	3838
f Ceria-Based Anode with Highly Dispersed Ruthenium Catalysts in (H2 + CO2 +	**H2O) Gas High-Performance Electrode for Medium-Temperature Operating**	5	1700
Instability of BaCeO3 in	**H2O-Containing Atmospheres**	4	1388
y Kinetics of Oxidation Processes on Lead Electrode in	**H2SO4. III. A Study of the Growth of the PbO Layer by Linear Sweep Voltammetr**	4	1157
etics of the Hydrogen Evolution Reaction on RuO2 and IrO2 Oxide Electrodes in	**H2SO4 Solution: An AC Impedance Study Kin**	11	3578
Modification of Silicon Surfaces with	**H2SO4:H2O2:HF and HNO3:HF for Wafer Bonding Applications**	5	1709
Effect of Platinum Particle Size on the Oxygen Reduction Reaction on 2% Pt-1%	**H2WO4 in Phosphoric Acid**	6	1814
Electrochemical Behavior of WO3 Films in	**H3PO4/H2O Binary Mixtures**	9	2789
Formation on Amorphous Carbon Electrode and Effect of Anions on the Crystal	**Habit of Cu2O Particles Single-Crystal Cu2O**	7	2105
Linear Algebra Used to Determine Independent	**Half-Cell Equations**	6	1781
Correlation Between Lithium Intercalation Capacity and Microstructure in	**Hard Carbons**	11	3482
	Harmonic Analysis of Corroding Systems Considering Diffusion Phenomena	12	4033
Dopant Depth Profiling by Anodic Sectioning Using 0.1 M	**HCl Electrolyte**	11	L256
Modeling of	**Heat Transport and Wafer Heating Effects during Plasma Etching**	11	3674
Carbide Crystals Thermodynamic	**Heat Transfer and Mass Transport Modeling of the Sublimation Growth of Silicon**	11	3727
u Raman Study of Electrochemical Lithium Insertion into Mesocarbon Microbeads	**Heat-Treated at Various Temperatures In Sit**	8	2572
Characterization of the Electroless Ni-Mo-P/SnO2/Ti Electrodes with	**Heat-Treatment for Oxygen Evolution in Alkaline Solution**	7	2158
osition Effects of Postdeposition	**Heat-Treatment on Morphology and Microstructure of CdTe Grown by Electrodep**	2	517
Modeling of Heat Transport and Wafer	**Heating Effects during Plasma Etching**	11	3674
static Regime Electroluminescence of	**Heavily Doped p-Type Porous Silicon under Electrochemical Oxidation in Galvano**	3	1055
treatment Barrier	**Height Lowering and Instability of Gate Oxides Due to Dilute Hydrofluoric Acid Pre**	3	973
A Study on Low Dielectric Material Deposition Using a	**Helicon Plasma Source**	9	2990
Microstructural Properties of	**Helium Implanted Void Layers in Silicon as Related to Front-Side Gettering**	2	725
Promoting Effect of Sodium Dodecyl Sulfate on the Redox Reaction of	**Hemoglobin**	2	L24
Electrolysis of Water in CuO/ZnO	**Heterocontact Humidity Sensor**	4	L89
Double-Layer mc-Si/a-SiCx Emitter in a Silicon	**Heterojunction Bipolar Transistor with a Cutoff Frequency of 47 GHz**	6	1949
d by Chemical Vapor Deposition from Chromium Acetylacetonate and Chromium	**Hexacarbonyl Chromium Oxide Thin Films Prepare**	6	1955
Countercation-Sensitive Electrochromism of Cobalt	**Hexacyanoferrate Films**	1	L10
Batch Reactor Kinetic Studies of Tungsten LPCVD from Silane and Tungsten	**Hexafluoride**	1	296
fects of Plasma Excitation and Chemical Pretreatment on Adsorption of Tungsten	**Hexafluoride on Silicon and Silicon Dioxide Studied by X-Ray Photoelectron Spec**	11	3670
inetic, and Mechanistic Aspects Reduction of	**Hexavalent Chromium in Aqueous Solutions by Pulypyrrole. II. Thermodynamic, K**	1	44
Electrochemical Intercalation of Hydrated	**Hexiliminium Cations into the Layered Compound 2H-NbS2**	8	2522
Etching SiO2 Films in Aqueous 0.49%	**HF**	9	2885
al Deposition of Very Smooth Lithium Using Nonaqueous Electrolytes Containing	**HF Electrochemic**	7	2187
ation of Gas-Phase Etching of Thermal Oxide and TEOS Oxide Using Anhydrous	**HF and CH3OH Modeling and Characteriz**	3	1099
New Method of Purification of	**HF Chemicals for Very Large Scale Integration Manufacturing**	12	4119
Copper Deposition on	**HF Etched Silicon Surfaces: Morphological and Kinetic Studies**	1	92
The Role of Chemical Species in the Passivation of <100> Silicon Surfaces by	**HF in Water-Ethanol Solutions**	12	4059
Isolated Submicrometer Filaments Formed by Silicon Anodization in	**HF Solutions**	5	L100
Electrochemical Investigation of Copper Contamination on Silicon Wafers from	**HF Solutions**	9	2870
Electrochemical Properties of Silicon Wafer Surfaces on Copper Outplating from	**HF Solutions Impact of the**	10	3323
Kinetics and Mechanism of the Etching of CoSi2 in	**HF-Based Solutions**	10	3245
Improvement of High Temperature Water Rinsing and Drying for	**HF-Last Wafer Cleaning**	1	233
lution Electrochemical Reductions of	**Hg(II), Ruthenium-Nitrosyl Complex, Chromate, and Nitrate in a Strong Alkaline So**	12	3801
Computer Simulation of Oxygen Precipitation in Czochralski-Grown Silicon during	**HI-LO-HI Anneals**	3	995
ductor-Metal Photodetectors Electrochemically Fabricated	**High-Barrier Schottky Contacts on n-InP and Their Application for Metal-Semicon**	6	1945
	High-Density Etching of Group III Nitride Ternary Films	10	3285
yte All-Solid-State Electric Double-Layer Capacitor with Isotropic	**High-Density Graphite Electrode and Polyethylene Oxide/LiClO4 Polymer Electrol**	12	3982
de with Highly Dispersed Ruthenium Catalysts in (H2 + CO2 + H2O) Gas	**High-Performance Electrode for Medium-Temperature Operating Solid Oxide Fuel**	5	1700
	High-Performance Positive Paste for Lead-Acid Batteries	9	2841
ne Solutions Interface with Substrates of	**High-Phosphorus Electroless NiP and NiCuP Deposited from Nonammonia Alkali**	9	2804
loride Solutions On the Repassivation Behavior of	**High-Purity Titanium and Selected A, B and B + A Titanium Alloys in Aqueous Ch**	6	1847
Chemical Vapor Deposition with Nitrous Oxide and Silane Formation of	**High-Quality Nitrided Silicon Dioxide Films Using Electron-Cyclotron Resonance**	5	1681
A	**High-Rate Carbon Electrode for Rechargeable Lithium-Ion Batteries**	3	L54
	High-Rate Copper Dissolution in Hydrochloric Acid Solution	3	961
Photoscanning Method	**High-Resolution Measurement of Resistivity Variations in Power Devices by the**	12	4105
Microcrystal Growth on Borophosphosilicate Glass Film during	**High-Temperature Annealing**	2	666
op Silicon of SIMOX Wafers Investigations on	**High-Temperature Thermal Oxidation Process at Top and Bottom Interfaces of T**	1	244
Modification of Silicon Surfaces with H2SO4:H2O2:HF and	**HNO3:HF for Wafer Bonding Applications**	5	1709
Semiconductor Electrochemistry of Particulate Pyrite: Dissolution via	**Hole and Electron Pathways**	10	3192
Al-Ge Reflow Sputtering for Submicron Contact	**Hole Filling**	1	228
Anodic Dissolution of Iron in a Magnetic Field with	**Holographic Microphotography**	12	L283
A Three-Phase	**Homogeneous Model for Porous Electrodes in Molten-Carbonate Fuel Cells**	5	1617
Feasibility Studies of a Fuel Cell for Cogeneration of	**Homogeneously Catalyzed Acetaldehyde and Electricity from Ethanol**	10	3058
	Horizontally Redundant, Split-Gate a-Si:H Thin Film Transistors	8	2680
the Efficiency of the Host-Sensitized Luminescence in the Lanthanum Metaborate	**Host Lattice The Intermediate Role of the Gd3+ Ions in**	1	330
The Intermediate Role of the Gd3+ Ions in the Efficiency of the	**Host-Sensitized Luminescence in the Lanthanum Metaborate Host Lattice**	1	330
Characterization and Residue Elimination of	**Hot Aluminum Etching in a Transformer Coupled Plasma Etcher**	5	1763
Modeling and Analysis of a New Multiwafer	**Hot Wall Phosphorus Doping Reactor**	4	1362
Electron Traps and Excess Current Induced by	**Hot-Hole Injection into Thin SiO2 Films**	10	3377
Oxidation and Steam Reforming of CH4 on Ni and Fe Anodes under Low	**Humidity Conditions in Solid Oxide Fuel Cells**	4	1161
Electrolysis of Water in CuO/ZnO Heterocontact	**Humidity Sensor**	4	L89
e) and Poly(vinyl alcohol) A New	**Humidity Sensor Using the Composite Film Derived from Poly(o-phenylenediamin**	9	2925
A Temperature Study of the Ionic Conductivity of a	**Hybrid Polymer Electrolyte**	2	570
-Area Electrochromic Coatings. Composites of Polyaniline and Polyacrylate-Silica	**Hybrid Sol-Gel Materials Large**	8	2591

		Issue	Page
Electrochemical Intercalation of	**Hydrated** Hexilaminium Cations into the Layered Compound 2H-NbS2	8	2522
Rechargeable 3 V Li Cells Using	**Hydrated** Lamellar Manganese Oxide	11	3429
hysical Electrochemistry of Strong Electrolytes Based on Partial Dissociation and	**Hydration**. Quantitative Interpretation of the Thermodynamic Properties of NaCl(a	6	1789
Electrochemical Evaluation of LaNi5-xGex Metal	**Hydride** Alloys	9	L205
Electrochemical Studies on LaNi5-xSnx Metal	**Hydride** Alloys	8	2578
erties of Ti0.35Zr0.65NixV2-x-yMny Alloys with C14 Laves Phase for Nickel/Metal	**Hydride** Batteries Studies of Electrochemical Prop	2	429
The Role of Microcracking in ZrCrNi	**Hydride** Electrodes	2	L31
Studies of Metal	**Hydride** Electrodes Using an Electrochemical Quartz Crystal Microbalance	1	120
Application of Porous Electrode Theory on Metal	**Hydride** Electrodes in Alkaline Solution	2	435
A Novel Plating Process for Microencapsulating Metal	**Hydrides**	8	2596
The Role of Metal	**Hydrides** in Electrode Reactions on Metal Oxide Semiconductors	10	3273
High-Rate Copper Dissolution in	**Hydrochloric** Acid Solution	3	961
A New Potentiometric Sensor for the Detection of Trace Metallic Contaminants in	**Hydrofluoric** Acid	10	L235
Barrier Height Lowering and Instability of Gate Oxides Due to Dilute	**Hydrofluoric** Acid Pretreatment	3	973
p- and n-Type Silicon Electrochemical Properties in Dilute	**Hydrofluoric** Acid Solutions	11	3832
Thermal Nitridation of SiO2 Films in Ammonia: The Role of	**Hydrogen**	4	1426
Comparison of Hydrogen Electroadsorption from the Electrolyte with	**Hydrogen** Adsorption from the Gas Phase	4	1240
	Hydrogen and Oxygen Evolution on Boron-Doped Diamond Electrodes	6	L133
Use of a	**Hydrogen** Anode for Nitrate Waste Destruction	10	3094
Recovery of Bromine from Waste Gas-Phase	**Hydrogen** Bromide Streams Using an Electrolytic Membrane	9	L184
Critical	**Hydrogen** Concentration for the Brittle Fracture of AISI 430 Stainless Steel	9	2736
Investigation of Defect Concentration in Implanted Silicon Substrates by	**Hydrogen** Decoration	12	4101
Low Energy Electron-Enhanced Etching of GaN/Si in	**Hydrogen** Direct Current Plasma	11	L261
Comparison of	**Hydrogen** Electroadsorption from the Electrolyte with Hydrogen Adsorption from t	4	1240
	Hydrogen Electrocatalysis by Carbon Supported Pt and Pt Alloys. An in Situ X-Ra	7	2285
	Hydrogen Evolution Reaction in Alkaline Solution Catalytic Influence of Pt Support	3	919
Kinetics of the	**Hydrogen** Evolution Reaction at Various Zr-Based Laves-Phase Hydrogen-Storag	8	2527
Kinetics of the	**Hydrogen** Evolution Reaction on RuO2 and IrO2 Oxide Electrodes in H2SO4 Solu	11	3576
Delaminations of Thin Layers by High Dose	**Hydrogen** Ion Implantation in Silicon. Formation of Thin Silicon on Insulator Silico	8	L166
The Effects of Multiple Electroplated Zinc Layers on the Inhibition of	**Hydrogen** Permeation Through an Iron Membrane	6	1871
The	**Hydrogen** Reduction of WF6: A Kinetic Study Based on In Situ Partial Pressure M	6	1868
Mixed Potential	**Hydrogen** Sensor Combining Oxide Ion Conductor with Oxide Electrode	7	L154
The	**Hydrogen** Storage Properties of New Mg2Ni Alloy	9	L198
The Synergistic Effect of	**Hydrogen** Sulfide and Nitrogen Dioxide on the Atmospheric Corrosion of Zinc	1	51
A	**Hydrogen** Sulfide Fuel Cell Using a Proton-Conducting Solid Electrolyte	3	L55
Analysis and Application of	**Hydrogen** Supplying Process in Metal-Oxide-Semiconductor Structures	11	3771
Analysis of Transient	**Hydrogen** Uptake by Metal Alloy Particles	12	4039
Hysteresis during Lithium Insertion in	**Hydrogen-Containing** Carbons	7	2137
Morphology and Utilization of Smooth	**Hydrogen-Evolving** Raney Nickel Cathode Coatings and Porous Sintered-Nickel	9	2852
A	**Hydrogen-Nitric** Oxide Cell for the Synthesis of Hydroxylamine	11	3491
Kinetics of the Hydrogen Evolution Reaction at Various Zr-Based Laves-Phase	**Hydrogen-Storage** Alloy Electrodes	8	2527
	Hydrogenation of C60 by Electrolysis of KOH-H2O Solution	6	1919
A New Successive System for	**Hydrogenation** of Styrene Using a Two-Compartment Cell Separated by a Pd Sh	4	L71
Testing the Role of Metal	**Hydrolysis** in the Anomalous Electrodeposition of Ni-Fe Alloys	12	3918
	Hydrothermal BaTiO3 Thin Films on Ti-Covered Silicon: Characterization and Gro	3	1133
In Situ Quartz Crystal Microbalance Studies of Nickel	**Hydrous** Oxide Films in Alkaline Electrolytes	1	37
A Model for Galvanostatic Deposition of Nickel	**Hydroxide**	7	2319
Spectroscopy Study of the Electrochemical Behavior of an Iron-Substituted Nickel	**Hydroxide** Electrode In Situ 57Fe Mossbauer	10	3083
Silver Electrocrystallization on Vitreous Carbon from Ammonium	**Hydroxide** Solutions	5	1551
Electrochemical Behavior of the Manganese-Substituted Nickel	**Hydroxides**	2	581
A Hydrogen-Nitric Oxide Cell for the Synthesis of	**Hydroxylamine**	11	3491
Cells with Sodium	**Hypochlorite** or Chlorite and Anodes of Magnesium or Aluminum	10	3133
	Hysteresis during Lithium Insertion in Hydrogen-Containing Carbons	7	2137

— I —

Comparison of ICl and	**IBr** Plasma Chemistries for Etching of InGaAlP Alloys	11	3856
Selective Dry Etching of III-V Nitrides in Cl2/Ar, CH4/H2/Ar, ICl/Ar, and	**IBr**/Ar	10	L246
Comparison of	**ICl** and IBr Plasma Chemistries for Etching of InGaAlP Alloys	11	3856
Selective Dry Etching of III-V Nitrides in Cl2/Ar, CH4/H2/Ar,	**ICl**/Ar, and IBr/Ar	10	L246
ored in Plastic Boxes	**Identification** and Removal of Trace Organic Contamination on Silicon Wafers St	10	3279
Radical Etching Technique	**Identification** of MOS Gate Dielectric Breakdown Spot Using High Selectivity C1	8	2691
rement	**Identification** Possibility of Metallic Impurities in p-Type Silicon by Lifetime Measu	1	216
Copper Decoration Followed by TEM Observation	**Identifying** Defects in the Buried Oxides of SOI Substrates	7	2387
Selective Dry Etching of	III-V Nitrides in Cl2/Ar, CH4/H2/Ar, ICl/Ar, and IBr/Ar	10	L246
Comparison of Dry Etching Techniques for	III-V Semiconductors in CH4/H2/Ar Plasmas	2	752
Extremely High Etch Rates of In-Based	III-V Semiconductors in BCl3/N2 Based Plasma	10	3394
l Microgravimetry Study of Zinc Electrode Behavior in a Neutral Solution by Laser	**Illumination** Electrochemical Quartz Crysta	5	1525
Current Responses to an Impulse Laser Light	**Illumination** in Semiconductor Electrodes	7	2220
ld Surfaces by Scaling and Spectral Analysis of In Situ Atomic Force Microscopic	**Images** Mechanistic Study of Copper Deposition onto Ge	10	3122
c Displays Poly(p-phenylene terephthalamide) Film	**Immobilizing** Oligomer Species as a Colored Matrix for Three-Color Electrochromi	9	L212
strates	**Impact** of Fe and Cu Contamination on the Minority Carrier Lifetime of Silicon Sub	9	3014
con	**Impact** of Reactive Ion Etching Induced Carbon Contamination on Oxidation of Sili	7	2378
plating from HF Solutions	**Impact** of the Electrochemical Properties of Silicon Wafer Surfaces on Copper Out	10	3323
Surface Modification of Porous Silicon by Aluminum Isopropoxide and Its	**Impact** on Electroluminescence	4	1390
ctra for Systems with a Large Ohmic Resistance with Respect to the Polarization	**Impedance** The Error Structure of Impedance Spe	12	3880
(111) Si in Aqueous K4Fe(CN)6 Solution. I. Interface States and Recombination	**Impedance** Electrical Properties of n-Type	8	2531
ous Phase AC	**Impedance** Analysis for Li+ Insertion of a Pt/Lambda-MnO2 Electrode in an Aque	8	2610
a Small Energy Barrier	**Impedance** and Current-Voltage Behavior of a Semiconductor/Liquid Junction with	5	1599
Proton Conductivity of Nafion 117 as Measured by a Four-Electrode AC	**Impedance** Method	4	1254
Characterization of Polymer Electrolyte Fuel Cells Using AC	**Impedance** Spectroscopy	2	587
Application of Measurement Models to Electrohydrodynamic	**Impedance** Spectroscopy	3	948
at Bare and Polyaniline-Modified Platinum Electrodes Studied by Electrochemical	**Impedance** Spectroscopy Electrochemistry of Conducting Polymers. XIX.	4	1289
Inductive Loops in	**Impedance** Spectroscopy Caused by Electrical Shielding	11	3636
he Polarization Impedance The Error Structure of	**Impedance** Spectra for Systems with a Large Ohmic Resistance with Respect to t	12	3880
Oxidation of Zinc in Alkaline Solutions Studied by Electrochemical	**Impedance** Spectroscopy	12	3895
Thermally Stimulated Deep-Level	**Impedance** Spectroscopy. Application to an n-GaAs Schottky Diode	12	4066
Optically Stimulated Deep-Level	**Impedance** Spectroscopy. Application to an n-GaAs Schottky Diode	12	4074
hite Anodes in Saturated Cryolite-Alumina Melts An	**Impedance** Study of the Kinetics and Mechanism of the Anodic Reaction on Grap	6	1940
	Impedance Study of Reinforcing Steel in Simulated Pore Solution with Tannin	8	2458
volution Reaction on RuO2 and IrO2 Oxide Electrodes in H2SO4 Solution: An AC	**Impedance** Study Kinetics of the Hydrogen E	11	3576
ctroscopic Ellipsometry Studies of Damage Layer Induced by Large Tilt Angle Ion	**Implantation** Transmission Electron Microscopy and Spe	8	2839
el Oxygen in Thin Silicon Crystal Using a C-O Complex Formed Through Carbon	**Implantation** Photoluminescence Measurements of Low-Lev	9	2876
ion of Na+-Sensitive Electrolyte/Oxide/Semiconductor Structures Obtained by Ion	**Implantation** Characterizat	4	1422
Amorphization of Thin Si Layers by Arsenic Ion	**Implantation**	3	L67
Delaminations of Thin Layers by High Dose Hydrogen Ion	**Implantation** in Silicon. Formation of Thin Silicon on Insulator Silicon Layers	8	L166
Etch-Stop Behavior of Buried Layers Formed by Substoichiometric Nitrogen Ion	**Implantation** into Silicon	3	1026
Structural and Compositional Characterization of High Energy Separation by	**Implantation** of Oxygen Structures Using Infrared Spectroscopy	9	3019
Protrusion Formation at the Edges of Ion	**Implanted** Regions	6	L118
Investigation of Defect Concentration in	**Implanted** Silicon Substrates by Hydrogen Decoration	12	4101
Microstructural Properties of Helium	**Implanted** Void Layers in Silicon as Related to Front-Side Gettering	2	725
A Monte Carlo Binary Collision Model for BF2	**Implants** into (100) Single-Crystal Silicon	11	3754

		Issue	Page
The High Temperature Phase Diagram of Li1+xMn2-xO4 and Its	**Implications**	6	1783
leaning	**Improvement** of High Temperature Water Rinsing and Drying for HF-Last Wafer C	1	233
	Improvements of the Rechargeable Alkaline MnO2-Zn Cell	1	13
Current Responses to an	**Impulse** Laser Light Illumination in Semiconductor Electrodes	7	2229
nd Their Stability	**Impurities** in Chemical Bath Deposited CdS Films for Cu(In,Ga)Se2 Solar Cells a	8	2662
Identification Possibility of Metallic	**Impurities** in p-Type Silicon by Lifetime Measurement	1	216
Contribution of Diffusion Interstitial Injection to Gettering of Metallic	**Impurities** in Silicon	1	381
Properties of Zinc Telluride Containing	**Impurities** Introduced during Spray Pyrolysis	12	4064
Development of Surface	**Impurity** Segregation during Dissolution of Aluminum	1	83
Extremely High Etch Rates of	**In-Based** III-V Semiconductors in BCl3/N2 Based Plasma	10	3394
Electrodeposition of	**In-Se**, Cu-Se, and Cu-In-Se Thin Films	3	854
Oxygen Tracer Diffusion in Polycrystalline	**In2O3**	8	2898
Wet Chemical Etching of AlN and	**InAlN** in KOH Solutions	11	3681
Effect of BCl3 Dry Etching on	**InAlN** Surface Properties	9	L217
Factors Inducing Deterioration of	**InBO3:Tb** by Electron Bombardment	5	1696
action in Alkaline Solution Catalytic Influence of Pt Supported on Graphite vs. Pt	**Inclusions** in Graphite Hydrogen Evolution Re	3	919
Luminescence Characteristics of the Lanthanide Complex	**Incorporated** into an ORMOSIL Matrix Using a Sol-Gel Method	10	3333
A Study of Nitrogen	**Incorporation** during the Oxidation of Si(100) in N2O at High Temperatures	1	221
On The Mechanism of Boron	**Incorporation** during Silicon Epitaxy by Means of Chemical Vapor Deposition	2	634
A Model for the	**Incorporation** of Electrolyte Species into Anodic Alumina	1	74
Linear Algebra Used to Determine	**Independent** Half-Cell Equations	6	1781
Indirect Electrochemical Reduction of Dispersed	**Indigo** Dyestuff	8	2411
	Indirect Electrochemical Reduction of Dispersed Indigo Dyestuff	8	2411
Oxidation of n-InP and	**Indium** in the Negative Potential Region at pH 5	2	524
Selective CO Detection by Using	**Indium** Oxide-Based Semiconductor Gas Sensor	2	L36
Bevel Etching of Tin-Doped	**Indium** Oxide	2	L40
Electro-optical Charge Trapping in Zinc Porphyrin Films on	**Indium** Tin Oxide and /SiO2/Si	6	1914
Oxide Growth Enhancement Related to Annealing	**Induced** Arsenic Accumulation in the Si/SiO2 Interface Region	1	L15
A Study of the Oxidation Slow-Down Mechanism	**Induced** by Carbon Contamination on Silicon Surface	9	2965
Effects of Annealing on Damage in AlGaAs	**Induced** by Electron Cyclotron Resonance SF6/CHF3 Plasma Etching	3	1151
Electron Traps and Excess Current	**Induced** by Hot-Hole Injection into Thin SiO2 Films	10	3377
n Electron Microscopy and Spectroscopic Ellipsometry Studies of Damage Layer	**Induced** by Large Tilt Angle Ion Implantation Transmissio	8	2636
Impact of Reactive Ion Etching	**Induced** Carbon Contamination on Oxidation of Silicon	7	2378
	Induced Codeposition. I. An Experimental Investigation of Ni-Mo Alloys	3	885
of Ni-Mo Alloys	**Induced** Codeposition. II. A Mathematical Model Describing the Electrodeposition	3	893
Surface Evolution in a Pulsed Laser	**Induced** Epitaxy Process of Submicron SiGe Wires	8	2678
Factors	**Inducing** Deterioration of InBO3:Tb by Electron Bombardment	5	1696
	Inductive Loops in Impedance Spectroscopy Caused by Electrical Shielding	11	3636
Simulations of a Feedback Control Scheme for an	**Inductively** Coupled Plasma Source for Etching Applications	4	1375
Effects of Transmitted Electrons on	**Inductively** Coupled Plasma Etching of a Si Wafer Through an Al Mask	11	3752
Report of the Electrolytic	**Industries** for the Year 1995	10	3410
Electrodeposition and Stripping of Lithium and Sodium on	**Inert** Electrodes in Room Temperature Chloroaluminate Molten Salts	3	908
Structural Model Effects on the Predictions of Chemical Vapor	**Infiltration** Models	6	1962
d Interfacial Roughness of Polished and Oxidized Silicon Wafers Evaluated by an	**Infrared** Differential Interference Contrast Technique Surface an	11	L254
of Electrochemical Interfaces	**Infrared** Photothermal Deflection Spectroscopy: A New Probe for the Investigation	5	1514
Electrochemical Double Layer at (100) Au in Perchloric Acid Solutions by In Situ	**Infrared** Spectroscopy Studies of the	8	L171
ecimens for Determination of Oxygen Concentration in Semiconductor Silicon by	**Infrared** Spectrophotometry Methodology for the Certification of Reference	1	258
g	**Infrared** Spectroscopic Analysis of Phosphosilicate Glass Films for Micromachinin	3	968
Standard Cleaning Treatments	**Infrared** Spectroscopy Study of Chemical Oxides Formed by a Sequence of RCA	9	2995
terization of High Energy Separation by Implantation of Oxygen Structures Using	**Infrared** Spectroscopy Structural and Compositional Charac	9	3019
d the Application to the Electroreduction of CO2 In Situ Fourier Transform	**Infrared** Spectroscopic Studies on a Metal Complex-Immobilized Polyaniline/Pruss	11	3806
rowave Plasmas In Situ	**Infrared** Studies of Polyvinyl Chloride Films Exposed to H2/O2/Ar Downstream Mic	9	2896
d Cathodes In Situ Fourier Transform	**Infrared-Diffuse** Reflection Spectroscopy of Direct Methanol Fuel Cell Anodes an	10	3053
Comparison of ICl and IBr Plasma Chemistries for Etching of	**InGaAlP** Alloys	11	3656
High Ion Density Plasma Etching of	**InGaP**, AlInP, and AlGaP in CH4/H2/Ar	3	1093
Solution Containing FeCl3	**Inhibition** Effects of Amines and Thiols on Iron Corrosion in Anhydrous Methanol	12	3866
The Effects of Multiple Electroplated Zinc Layers on the	**Inhibition** of Hydrogen Permeation Through an Iron Membrane	6	1871
r in Iodide Solutions. Comparison with Chloride and Effect of Benzotriazole-Type	**Inhibitors** Anodic Behavior of Coppe	2	458
An Experimental Study of Iron Corrosion in Sulfuric Acid Solution Containing	**Inhibitors** by Noise Measurement	11	3897
Blocking	**Inhibitors** in Cathodic Leveling. I. Theoretical Analysis	12	3927
Blocking	**Inhibitors** in Cathodic Leveling. II. Experimental Investigation	12	3936
ic Oxides on (100) Si Influence of the	**Initial** Electrochemical Potential on the Growth Mechanism and Properties of Anod	9	2931
dation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in the	**Initial** Stages Thermal Nitri	9	2938
	Initiation and Formation of Porous GaAs	10	3316
Molecular Dynamics Studies of Lithium	**Injection** in Model Cathode/Electrolyte Systems	7	2211
Electron Traps and Excess Current Induced by Hot-Hole	**Injection** into Thin SiO2 Films	10	3377
Contribution of Diffusion Interstitial	**Injection** to Gettering of Metallic Impurities in Silicon	1	381
Room Temperature	**Inorganic** "Quasi-Molten Salts" as Alkali-Metal Electrolytes	11	3648
	Inorganic Electrolyte Solutions and Gels for Rechargeable Lithium Batteries	9	L209
Wet Chemical Etching of High Quality V-Grooves with {111} A Sidewalls on (001)	**InP**	10	3271
The Etching of	**InP** by Acidic Iodine Solutions. A Kinetic and Electrochemical Study	4	1319
Physical Property Change of FeOOH(AD)1/4 during Lithium	**Insertion** and Extraction	9	2713
condary Li/LiMn2O4 Cells FTIR Spectroscopy of Metal Oxide	**Insertion** Electrodes: A New Diagnostic Tool for Analysis of Capacity Fading in Se	6	L136
Hysteresis during Lithium	**Insertion** in Hydrogen-Containing Carbons	7	2137
An Investigation of Lithium Ion	**Insertion** into Spinel Structure Li-Mn-O Compounds	3	825
Proton	**Insertion** into Ruthenium Oxide Film Prepared by Pulsed Laser Deposition	3	1068
7Li-Nuclear Magnetic Resonance Observation of Lithium	**Insertion** into Mesocarbon Microbeads	6	1923
In Situ Raman Study of Electrochemical Lithium	**Insertion** into Mesocarbon Microbeads Heat-Treated at Various Temperatures	8	2572
AC Impedance Analysis for Li+	**Insertion** of a Pt/Lambda-MnO2 Electrode in an Aqueous Phase	8	2610
raphite Intercalation Compounds: Structural Characteristics and Electrochemical	**Insertion** of Lithium Cations Vanadium Oxide Fluoride-G	7	2093
Electrochemical	**Insertion** of Lithium into Carbon Synthesized from Condensed Aromatics	7	2235
Lithium	**Insertion** Processes of Orthorhombic NaxMnO2-Based Electrode Materials	8	2507
In Situ Conductivity Measurements of LiCoO2 Film during Lithium	**Insertion/Extraction** by Using Interdigitated Microarray Electrodes	10	3187
	Instability of BaCeO3 in H2O-Containing Atmospheres	4	1386
Dimensional	**Instability** of Doped Lanthanum Chromite	9	2919
Barrier Height Lowering and	**Instability** of Gate Oxides Due to Dilute Hydrofluoric Acid Pretreatment	3	973
Low-Background	**Instrumental** Neutron Activation Analysis of Silicon Semiconductor Materials	1	339
by High Dose Hydrogen Ion Implantation in Silicon. Formation of Thin Silicon on	**Insulator** Silicon Layers Delaminations of Thin Layers	8	L166
re Resistance in Annealed Borophosphosilicate Glass Films for Very Large Scale	**Integrated** Circuit Applications Moistu	9	3032
New Method of Purification of HF Chemicals for Very Large Scale	**Integration** Manufacturing	12	4119
lution on Co-Cu-Zn Ternary Spinel Oxide-Coated Electrodes in Alkaline Solution.	**Integration** of Statistical, Electrochemical, and Textural Approaches Oxyge	4	1218
Electrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. II.	**Intensity** Modulated Photocurrent Spectroscopy	8	2538
ed Electrolytes A Vibrational Spectroscopic Study on the	**Interaction** Between Lithium Salt and Ethylene Carbonate Plasticizer for PAN-bas	5	1510
Galvanic	**Interaction** Between Manganese Dioxide and Pyrite	12	3987
Effect of Temperature on the	**Interaction** of Silicon with Nonionic Surfactants in Alkaline Solutions	1	277
Reactivity of Lithium	**Intercalated** into Petroleum Coke with Carbonate Electrolytes	2	391
Stress in Carbon Film Electrodes during Li+ Electrochemical	**Intercalation**	8	2417
Effects of the Organic Solvent on the Electrochemical Lithium	**Intercalation** Behavior of Graphite Electrode	2	L26
Correlation Between Lithium	**Intercalation** Capacity and Microstructure in Hard Carbons	11	3482
of Lithium Cations Vanadium Oxide Fluoride-Graphite	**Intercalation** Compounds: Structural Characteristics and Electrochemical Insertion	7	2093
High Surface Area V2O5 Aerogel	**Intercalation** Electrodes	7	2099
Optomechanical Studies of Lithium	**Intercalation** in Amorphous Molybdenum Thin Films	9	2822

			Issue	Page
	Electrochemical Lithium	**Intercalation** in VO2(B) in Aqueous Electrolytes	9	2730
	Electrochemical Lithium	**Intercalation** into a Polyaniline/V2O5 Nanocomposite	9	L181
	Variable Diffusivity in	**Intercalation** Materials. A Theoretical Approach	4	1287
	A Kinetic Study of Lithium Transport in a New Li	**Intercalation** Material Al0.11V2O5.15 Synthesized via a Sol-Gel Process	7	2083
	Lithium	**Intercalation** of Carbon-Fiber Microelectrodes	1	24
bS2	Electrochemical	**Intercalation** of Hydrated Hexilaminium Cations into the Layered Compound 2H-N	8	2522
	Modeling Lithium	**Intercalation** of Single-Fiber Carbon Microelectrodes	2	600
	Effect of Mechanical Grinding on the Lithium	**Intercalation** Process in Graphites and Soft Carbons	12	3969
	Structure and Lithium	**Intercalation** Properties of Synthetic and Natural Graphite	11	3468
	Chromium Vapor Species over Solid Oxide Fuel Cell	**Interconnect** Materials and Their Potential for Degradation Processes	11	3842
icon Oxide Films Using Fluorotriethoxysilane for Interlayer Dielectrics in Multilevel		**Interconnections** Properties of Fluorinated Sil	3	1084
Roles of Cap-Metal on Via Electromigration Resistance in Aluminum-Based		**Interconnections**	3	1043
Electrochemical Properties of Doped Lanthanum Chromites as		**Interconnectors** for Solid Oxide Fuel Cells	5	1583
Electromigration Characteristics of Sputtered TiN/Ti/Al(Si/Cu/Ti/ON/Ti		**Interconnects** with Aluminum Reflow	10	3297
Electrochemical Determination of Solid-State		**Interdiffusion** in Nickel-Platinum Alloys	11	3862
ctivity Measurements of LiCoO2 Film during Lithium Insertion/Extraction by Using		**Interdigitated** Microarray Electrodes In Situ Condu	10	3157
emical Energy Conversion at the Conjugated Polymer/Redox Polymer Electrolyte		**Interface** Photoelectroch	7	2310
Silicon-Diamond		**Interface** Band Structure	3	1112
Study of the Poly[oxymethylene oligo-(oxy-ethylene)]/Lithium Metal		**Interface**. Comparison of Linear, Cross Linked, and Alkylated Electrolyte Films	4	1292
The Composition of the Alloy/Film		**Interface** during Anodic Oxidation of Al-W Alloys	8	2465
Ohmic Resistance of the Electrode-Electrolyte		**Interface** in Au/YSZ Oxygen Electrodes	4	L92
-Controlled Electrode Reaction at the Compact La1-xSrxMnO3/Stabilized Zirconia		**Interface** in Oxygen Atmospheres A Chemical Diffusion	10	3065
Enhancement Related to Annealing Induced Arsenic Accumulation in the Si/SiO2		**Interface** Region Oxide Growth	1	L15
ess Si-SiO2 Electronic		**Interface** Roughness as a Consequence of Si-SiO2 Topographic Interface Roughn	3	1021
-SiO2 Electronic Interface Roughness as a Consequence of Si-SiO2 Topographic		**Interface** Roughness Si	3	1021
Electrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. I.		**Interface** States and Recombination Impedance	8	2531
Generation of Si-SiO2		**Interface** States at Surface Potentials near 0.4 and 0.7 eV	11	3767
ed from Nonammonia Alkaline Solutions		**Interface** with Substrates of High-Phosphorus Electroless NiP and NiCuP Deposit	9	2804
Auger Electron Spectroscopy Element Profiles and		**Interface** with Substrates of Electroless Deposited Ternary Alloys	11	3892
al Deflection Spectroscopy: A New Probe for the Investigation of Electrochemical		**Interfaces** Infrared Phototherm	5	1514
Kinetics of Particle Coarsening at Gold Electrode/Electrolyte Solution		**Interfaces** Followed by In Situ Scanning Tunneling Microscopy	2	466
Stability of Lanthanum Calcium Chromite-Lanthanum Strontium Manganite		**Interfaces** in Solid Oxide Fuel Cells	7	2332
vestigations on High-Temperature Thermal Oxidation Process at Top and Bottom		**Interfaces** of Top Silicon of SIMOX Wafers In	1	244
The Combined Influence of		**Interfacial** Reaction Resistance and Fluid Flow on Microelectrode Sensors	7	2252
ng Electrolytes Effect of		**Interfacial** Resistance on Determination of Transport Properties of Mixed-Conducti	6	L109
frared Differential Interference Contrast Technique Surface and		**Interfacial** Roughness of Polished and Oxidized Silicon Wafers Evaluated by an In	11	L254
ess of Polished and Oxidized Silicon Wafers Evaluated by an Infrared Differential		**Interference** Contrast Technique Surface and Interfacial Roughn	11	L254
Properties of Fluorinated Silicon Oxide Films Using Fluorotriethoxysilane for		**Interlayer** Dielectrics in Multilevel Interconnections	3	1084
Fine-line Patterning of Parylene-n by Reactive Ion Etching for Application as an		**Interlayer** Dielectric	6	1974
escence in the Lanthanum Metaborate Host Lattice The		**Intermediate** Role of the Gd3+ Ions in the Efficiency of the Host-Sensitized Lumin	1	330
An SiO2 Film Deposition Technology Using Tetraethylorthosilicate and Ozone for		**Intermetal** Dielectrics	5	1749
		Internal Cation Mobilities in the Molten Binary Systems (Y, La)Cl3 and (Y, Dy)Cl3	1	334
The Isotope Effect on the		**Internal** Cation Mobility of Molten Dysprosium Chloride	12	3630
Characterization of Solid Oxide Fuel Cells by Use of an		**Internal** Pt Voltage Probe	5	1558
Investigation of Alkali Carbonate Transport Toward the Catalyst in		**Internal** Reforming MCFCs	10	3188
nts in Silicon		**Interpretation** of Carrier Recombination Lifetime and Diffusion Length Measureme	4	1399
		Interpretation of the Rationale for Feed Modification in 5CWO Systems	3	L59
erential Equation		**Interpretation** of the Power Response of a Fuel Cell with a Quadratic Logistic Diff	6	L113
y of Strong Electrolytes Based on Partial Dissociation and Hydration. Quantitative		**Interpretation** of the Thermodynamic Properties of NaCl(aq) from "Zero to Saturat	6	1799
Contribution of Diffusion		**Interstitial** Injection to Gettering of Metallic Impurities in Silicon	1	361
anate Lattices		**Intramolecular** Energy Transfer and Mn4+ Luminescence in Polyoxometallomang	5	1678
The		**Intrinsic** Anodic Stability of Several Anions Comprising Solvent-Free Ionic Liquids	3	798
Properties of Zinc Telluride Containing Impurities		**Introduced** during Spray Pyrolysis	12	4054
s of Molten Salt Solutions. I. 4-Methylpyridinium Chloride and 4-Methylpyridinium		**Iodide** Structure, 1H NMR Spectra, Thermodynamics, and Transport Prope	1	183
hanges in Surface Energy of Gold Electrode in Perchlorate Solutions Containing		**Iodide** Ions Piezoelectric Detection of C	3	899
itors Anodic Behavior of Copper in		**Iodide** Solutions. Comparison with Chloride and Effect of Benzotriazole-Type Inhib	2	458
The Etching of InP by Acidic		**Iodine** Solutions. A Kinetic and Electrochemical Study	4	1319
olymer Membrane Ion-Selective Electrodes by Conditioning with a Discriminated		**Ion** Determination of Improved Selectivity Coefficients of P	4	L83
Improved Graphite Anode for Lithium		**Ion** Batteries Chemically Bonded SEI and Nanochannel Formation	1	L4
Mixed Potential Hydrogen Sensor Combining Oxide		**Ion** Conductor with Oxide Electrode	7	L164
NO2 Sodium		**Ion** Conductor Based Sensor Attached with NaNO2 for Amperometric Detection of	10	L241
Superior Oxygen		**Ion** Conductivity of Lanthanum Gallate Doped with Strontium and Magnesium	5	1644
lication of Neutron Radiography to Visualize the Motion of Lithium Ions in Lithium		**Ion** Conducting Materials App	6	1868
High		**Ion** Density Plasma Etching of InGaP, AlInP, and AlGaP in CH4/H2/Ar	3	1093
Li9SiAlO8: A Lithium		**Ion** Electrolyte for Voltages above 5.4 V	7	2198
ion Reactive		**Ion** Etching of 6H-SiC in SF6/O2 and CF4/O2 with N2 Additive for Device Fabricat	3	1037
Investigation of Polyimide Residue Due to Reactive		**Ion** Etching in O2	4	1484
Etching of 6H-SiC and 4H-SiC Using NF3 in a Reactive		**Ion** Etching System	5	1750
Fine-line Patterning of Parylene-n by Reactive		**Ion** Etching for Application as an Interlayer Dielectric	6	1974
Impact of Reactive		**Ion** Etching Induced Carbon Contamination on Oxidation of Silicon	7	2378
Patterning of Benzocyclobutene by Reactive		**Ion** Etching	8	2695
Reactive		**Ion** Etching of Copper Films in an SiCl4, N2, Cl2, and NH3 Mixture	12	4089
Amorphization of Thin Si Layers by Arsenic		**Ion** Implantation	3	L67
Protrusion Formation at the Edges of		**Ion** Implanted Regions	6	L118
Delaminations of Thin Layers by High Dose Hydrogen		**Ion** Implantation in Silicon. Formation of Thin Silicon on Insulator Silicon Layers	8	L166
Etch-Stop Behavior of Buried Layers Formed by Substoichiometric Nitrogen		**Ion** Implantation into Silicon	3	1026
rization of Na+-Sensitive Electrolyte/Oxide/Semiconductor Structures Obtained by		**Ion** Implantation Characte	4	1422
Spectroscopic Ellipsometry Studies of Damage Layer Induced by Large Tilt Angle		**Ion** Implantation Transmission Electron Microscopy and	8	2636
Toward a Reliable Value for the Diffusion Coefficient of Cupric		**Ion** in Aqueous Solution	4	1248
An Investigation of Lithium		**Ion** Insertion into Spinel Structure Li-Mn-O Compounds	3	825
Synthesis of a New Family of Anion Receptors and the Studies of Their Effect on		**Ion** Pair Dissociation and Conductivity of Lithium Salts in Nonaqueous Solutions	12	3825
A Study of the Transport of Formaldehyde and Ethylene Glycol Through		**Ion** Permeable Membranes in Electrolytic Cells	1	175
Control of Surface Concentration of Boron or Phosphorus Employing		**Ion** Shower Doping	2	712
A Novel Electrochemical Method for Measuring Salt Diffusion Coefficients and		**Ion** Transference Numbers	2	L44
Determination of Lithium		**Ion** Transference Numbers by Electrophoretic Nuclear Magnetic Resonance	6	L107
Room Temperature Deposition of Silicon Dioxide Films by		**Ion-Assisted** Plasma Enhanced Chemical Deposition	4	1443
The Mechanisms of Iron Gettering in Silicon by Boron		**Ion-Implantation**	4	1406
Determination of Improved Selectivity Coefficients of Polymer Membrane		**Ion-Selective** Electrodes by Conditioning with a Discriminated Ion	4	L83
A Temperature Study of the		**Ionic** Conductivity of a Hybrid Polymer Electrolyte	2	570
Synthesis of LiCH(SO2CF3)2 and		**Ionic** Conductivity of Polyether-Salt Complexes	4	1297
Effects on Conduction Properties of Na5YSi4O12-Type Glass-Ceramic Na+-Fast		**Ionic** Conductors Microstructural	7	2180
The Intrinsic Anodic Stability of Several Anions Comprising Solvent-Free		**Ionic** Liquids	3	798
bonate Solution		**Ionic** Radius of (CF3SO2)3C- and Applicability of Stokes Law to Its Propylene Car	11	L270
s in Surface Energy of Gold Electrode in Perchlorate Solutions Containing Iodide		**Ions** Piezoelectric Detection of Change	3	899
The Anodic Behavior of Azide		**Ions** at Carbon Electrodes in Neutral Electrolyte	2	556
Application of Neutron Radiography to Visualize the Motion of Lithium		**Ions** in Lithium Ion Conducting Materials	6	1868
Passivation of Sodium		**Ions** in Metal Oxide Semiconductor Structures by Annealing with Ultraviolet Light	10	3359
aborate Host Lattice The Intermediate Role of the Gd3+		**Ions** in the Efficiency of the Host-Sensitized Luminescence in the Lanthanum Met	1	330
The Anodic Behavior of Azide		**Ions** on Gold and Platinum Electrodes in Neutral Electrolyte	6	1827
Kinetics of the Hydrogen Evolution Reaction on RuO2 and		**IrO2** Oxide Electrodes in H2SO4 Solution: An AC Impedance Study	11	3576
Kinetics of Oxygen Reduction at		**IrO2-Coated** Titanium Electrode in Alkaline Solution	5	1488
Location of Corrosion on		**Iron** and Carbon Steel Surfaces with Crevices	8	L178

		Issue	Page
Reaction of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione (H+hfac) with	**Iron and Iron Oxide Thin Films**	10	3257
ni An Experimental Study of	**Iron Corrosion in Sulfuric Acid Solution Containing Inhibitors by Noise Measureme**	11	3897
Inhibition Effects of Amines and Thiols on	**Iron Corrosion in Anhydrous Methanol Solution Containing FeCl3**	12	3866
Nonlinear	**Iron Electrochemical Oscillator: Coupling and Photo Effects**	7	2258
The Mechanisms of	**Iron Gettering in Silicon by Boron Ion-Implantation**	4	1406
Anodic Dissolution of	**Iron in a Magnetic Field with Holographic Microphotography**	12	L283
Surface-Enhanced Raman Spectroelectrochemical Studies of Corrosion Films on	**Iron in Aqueous Carbonate Solution**	7	2146
e Electroplated Zinc Layers on the Inhibition of Hydrogen Permeation Through an	**Iron Membrane** The Effects of Multipl	6	1871
Absorption Near-Edge Spectroscopic Study of the Cathodic Reduction of Artificial	**Iron Oxide Passive Films** In Situ X-Ray	2	574
Electrochromic Properties of	**Iron Oxide Thin Films Prepared by Chemical Vapor Deposition**	5	1675
Synthesis, Structure, and Electrochemical Properties of a New Lithium	**Iron Oxide, LiFeO2, with a Corrugated Layer Structure**	8	2435
Reaction of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione (H+hfac) with Iron and	**Iron Oxide Thin Films**	10	3257
thode	**Iron(II) Catalysis of the Mineralization of Aniline Using a Carbon-PTFE O2-Fed Ca**	3	L49
Grain Size-Internal Stress Relationship in	**Iron-Nickel Alloy Electrodeposits**	10	3327
Situ 57Fe Mossbauer Spectroscopy Study of the Electrochemical Behavior of an	**Iron-Substituted Nickel Hydroxide Electrode** In	10	3083
Investigation of	**Island Formation during Through-Mask Electrochemical Micromachining**	7	2305
Nano-Trenched Local Oxidation of Silicon Isolation Using	**Island Polysilicon Grains**	2	639
Methacrolein Production from	**Iso-Butane Using a Au/Yttria-Stabilized Zirconia/Ag Electrochemical Reaction Cell**	11	L249
	Isolated Submicrometer Filaments Formed by Silicon Anodization in HF Solutions	5	L100
oscale Dishing Effect in a Chemical Mechanical Planarization Process for Trench	**Isolation** Micr	12	L281
High Temperature Local Oxidation of Silicon Field	**Isolation Morphological Characterization**	11	L259
Nano-Trenched Local Oxidation of Silicon	**Isolation Using Island Polysilicon Grains**	2	639
Surface Modification of Porous Silicon by Aluminum	**Isopropoxide and Its Impact on Electroluminescence**	4	1390
The	**Isotope Effect on the Internal Cation Mobility of Molten Dysprosium Chloride**	12	3830
Thermal Nitridation of SiO2 Films in Ammonia.	**Isotopic Tracing of Nitrogen and Oxygen in the Initial Stages**	9	2938
Thermal Nitridation of SiO2 Films in Ammonia.	**Isotopic Tracing of Nitrogen and Oxygen in Further Stages and in Reoxidation**	9	2946
r Electrolyte All-Solid-State Electric Double-Layer Capacitor with	**Isotropic High-Density Graphite Electrode and Polyethylene Oxide/LiClO4 Polyme**	12	3982
Is Ti Contamination in Si Wafer Processing an	**Issue?**	7	2353

— J —

Deposition of Diamond from a Plasma	**Jet with Dichlorobenzene as Carbon Source**	6	2003
The Dissipated Energy of Electrode Surfaces: Temperature	**Jumps from Coupled Transport Processes**	3	767
Thermal Stability of W-Contacted	**Junction Diodes**	6	2053
Impedance and Current-Voltage Behavior of a Semiconductor/Liquid	**Junction with a Small Energy Barrier**	5	1598
Sources Formation of Shallow	**Junctions during Rapid Thermal Processing from Electron-Beam Deposited Boron**	9	2981

— K —

Electrical Properties of n-Type (111) Si in Aqueous	**K4Fe(CN)6 Solution. I. Interface States and Recombination Impedance**	8	2531
Electrical Properties of n-Type (111) Si in Aqueous	**K4Fe(CN)6 Solution. II. Intensity Modulated Photocurrent Spectroscopy**	8	2538
f Hexavalent Chromium in Aqueous Solutions by Polypyrrole. II. Thermodynamic,	**Kinetic, and Mechanistic Aspects** Reduction o	1	44
The Etching of InP by Acidic Iodine Solutions. A	**Kinetic and Electrochemical Study**	4	1319
A Predictive	**Kinetic Model for the Chemical Vapor Deposition of TiSi2**	5	1726
aline Solution Determination of Transport and Electrochemical	**Kinetic Parameters of Bare and Copper Coated LaNi4.27Sn0.24 Electrodes in Alk**	3	834
Copper Deposition on HF Etched Silicon Surfaces: Morphological and	**Kinetic Studies**	1	92
Batch Reactor	**Kinetic Studies of Tungsten LPCVD from Silane and Tungsten Hexafluoride**	1	296
The Hydrogen Reduction of WF6: A	**Kinetic Study Based on In Situ Partial Pressure Measurements**	5	1668
perty Relationships in Si1-xGex Chemical Vapor Deposition. Thermodynamic and	**Kinetic Studies** Process-Pro	5	1719
15 Synthesized via a Sol-Gel Process A	**Kinetic Study of Lithium Transport in a New Li Intercalation Material Al0.11V2O5.**	7	2083
eres in Molten Alkali Carbonates A	**Kinetic Study of Spike Peaks Observed under Pressurized Oxidant Gas Atmosph**	7	2316
	Kinetics and Mechanism of Electroless Deposition of Copper	2	510
cid	**Kinetics and Modeling of Wet Etching of Aluminum Oxide by Warm Phosphoric A**	2	619
Cryolite-Alumina Melts An Impedance Study of the	**Kinetics and Mechanism of the Anodic Reaction on Graphite Anodes in Saturated**	6	1840
Computational Chemistry Predictions of	**Kinetics and Major Reaction Pathways for Germane Gas-Phase Reactions**	8	2646
	Kinetics and Mechanism of the Etching of CoSi2 in HF-Based Solutions	10	3245
sition. I. Transient Nucleation Stage Nucleation	**Kinetics of Diamond on Carbide-Forming Substrates during Chemical Vapor Depo**	3	1104
Growth of the PbO Layer by Linear Sweep Voltammetry	**Kinetics of Oxidation Processes on Lead Electrode in H2SO4. III. A Study of the**	4	1157
ion	**Kinetics of Oxygen Reduction at IrO2-Coated Titanium Electrode in Alkaline Solut**	5	1485
ollowed by In Situ Scanning Tunneling Microscopy	**Kinetics of Particle Coarsening at Gold Electrode/Electrolyte Solution Interfaces F**	2	486
Electrode	**Kinetics of Porous Mixed-Conducting Oxygen Electrodes**	11	3554
n Model Etching	**Kinetics of Silicon Dioxide in Aqueous Fluoride Solutions. A Surface Complexatio**	4	1339
drogen-Storage Alloy Electrodes	**Kinetics of the Hydrogen Evolution Reaction at Various Zr-Based Laves-Phase Hy**	8	2527
in H2SO4 Solution: An AC Impedance Study	**Kinetics of the Hydrogen Evolution Reaction on RuO2 and IrO2 Oxide Electrodes**	11	3578
ethod Oxidation	**Kinetics of Water and Organic Compounds by Silver (II) Using a Potentiometric M**	6	1860
Surface Characteristics of (100) Silicon Anisotropically Etched in Aqueous	**KOH**	4	1372
Wet Chemical Etching of AlN and InAlN in	**KOH Solutions**	11	3681
Hydrogenation of C60 by Electrolysis of	**KOH-H2O Solution**	6	1919

— L —

Internal Cation Mobilities in the Molten Binary Systems (Y,	**La)Cl3 and (Y, Dy)Cl3**	1	334
Effects of Ni, Fe, Cu, and Cr Substitutions for Co in	**La0.8Sr0.2CoO3 on Electrocatalytic Properties for Oxygen Evolution**	5	1505
Electrochemical Properties of Mixed Conducting Perovskites	**La1-xMxCo1-yFeyO3-delta (M = Sr, Ba, Ca)**	9	2722
Surface Exchange Properties of Ce0.9Gd0.1O2-x Coated with	**La1-xSrxFeyCo1-yO3-delta**	10	L229
A Chemical Diffusion-Controlled Electrode Reaction at the Compact	**La1-xSrxMnO3/Stabilized Zirconia Interface in Oxygen Atmospheres**	10	3065
Characterization of Sr-Doped LaMnO3 and	**LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic Fuel Cell**	11	3630
cterization of Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a Doped	**LaGaO3 Ceramic Fuel Cell** Chara	11	3630
Electrochromic Behavior of a	**Lambda-MnO2 Electrode Accompanying Li+ -Insertion in an Aqueous Phase**	3	905
Rechargeable 3 V Li Cells Using Hydrated	**Lamellar Manganese Oxide**	11	3429
Photon Cascade Luminescence of Pr3+ in	**LaMgB5O10**	12	4113
ated Total Reflection-Infrared Spectroscopy Theoretical Aspects of	**Laminar Flow in a Channel-Type Electrochemical Cell as Applied to In Situ Attenu**	10	3160
ell Characterization of Sr-Doped	**LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Ceramic Fuel C**	11	3630
of Transport and Electrochemical Kinetic Parameters of Bare and Copper Coated	**LaNi4.27Sn0.24 Electrodes in Alkaline Solution** Determination	3	834
Electrochemical Evaluation of	**LaNi5-xGex Metal Hydride Alloys**	9	L205
Electrochemical Studies on	**LaNi5-xSnx Metal Hydride Alloys**	8	2578
od Luminescence Characteristics of the	**Lanthanide Complex Incorporated into an ORMOSIL Matrix Using a Sol-Gel Meth**	10	3333
Oxide Fuel Cells Stability of	**Lanthanum Calcium Chromite-Lanthanum Strontium Manganite Interfaces in Solid**	7	2332
Electrochemical Properties of Doped	**Lanthanum Chromites as Interconnectors for Solid Oxide Fuel Cells**	5	1583
Dimensional Instability of Doped	**Lanthanum Chromite**	9	2919
Superior Oxygen Ion Conductivity of	**Lanthanum Gallate Doped with Strontium and Magnesium**	5	1644
ole of the Gd3+ Ions in the Efficiency of the Host-Sensitized Luminescence in the	**Lanthanum Metaborate Host Lattice** The Intermediate R	1	330
The Error Structure of Impedance Spectra for Systems with a	**Large Ohmic Resistance with Respect to the Polarization Impedance**	12	3880
Moisture Resistance in Annealed Borophosphosilicate Glass Films for Very	**Large Scale Integrated Circuit Applications**	9	3032
New Method of Purification of HF Chemicals for Very	**Large Scale Integration Manufacturing**	12	4119
Microscopy and Spectroscopic Ellipsometry Studies of Damage Layer Induced by	**Large Tilt Angle Ion Implantation** Transmission Electron	8	2636
Silica Hybrid Sol-Gel Materials	**Large-Area Electrochromic Coatings. Composites of Polyaniline and Polyacrylate-**	8	2591
Proton Insertion into Ruthenium Oxide Film Prepared by Pulsed	**Laser Deposition**	3	1068
ctrochemical Behavior of LiMn2O4 and LiCoO2 Thin Films Produced with Pulsed	**Laser Deposition** Ele	6	1821
Crystal Microgravimetry Study of Zinc Electrode Behavior in a Neutral Solution by	**Laser Illumination** Electrochemical Quartz	5	1525
Surface Evolution in a Pulsed	**Laser Induced Epitaxy Process of Submicron SiGe Wires**	8	2678

		Issue	Page
Current Responses to an Impulse	**Laser** Light Illumination in Semiconductor Electrodes	7	2220
The Direct Observation of Grown-in	**Laser** Scattering Tomography Defects in Czochralski Silicon	10	L243
fficiency of the Host-Sensitized Luminescence in the Lanthanum Metaborate Host	**Lattice** The Intermediate Role of the Gd3+ Ions in the E	1	330
Phase Transformation and	**Lattice** Strain of alpha-AgI Stabilized in Superionic Glass	2	687
olecular Energy Transfer and Mn4+ Luminescence in Polyoxometallomanganate	**Lattices** Intram	5	1678
udies of Electrochemical Properties of Ti0.35Zr0.65NixV2-x-yMny Alloys with C14	**Laves Phase** for Nickel/Metal Hydride Batteries St	2	429
Kinetics of the Hydrogen Evolution Reaction at Various Zr-Based	**Laves-Phase** Hydrogen-Storage Alloy Electrodes	8	2527
Ionic Radius of (CF3SO2)3C- and Applicability of Stokes	**Law** to Its Propylene Carbonate Solution	11	L270
Studies of the Electrochemical Double	**Layer** at (100) Au in Perchloric Acid Solutions by In Situ Infrared Spectroscopy	8	L171
n Processes on Lead Electrode in H2SO4. III. A Study of the Growth of the PbO	**Layer** by Linear Sweep Voltammetry Kinetics of Oxidatio	4	1157
Deposition of Tin Oxide into Porous Silicon by Atomic	**Layer** Epitaxy	2	683
Barrier Effect of TaSiN	**Layer** for Oxygen Diffusion	11	L264
smission Electron Microscopy and Spectroscopic Ellipsometry Studies of Damage	**Layer** Induced by Large Tilt Angle Ion Implantation Tran	8	2636
Effects of Microstructure of Carbon Support in the Catalyst	**Layer** on the Performance of Polymer-Electrolyte Fuel Cells	7	2245
A Novel Seed	**Layer** Scheme to Protect Catalytic Surfaces for Electroless Deposition	11	3812
ectrochemical Properties of a New Lithium Iron Oxide, LiFeO2, with a Corrugated	**Layer** Structure Synthesis, Structure, and El	8	2436
Electrochemical Intercalation of Hydrated Hexileminium Cations into the	**Layered** Compound 2H-NbS2	8	2522
ydrogen Ion Implantation in Silicon. Formation of Thin Silicon on Insulator Silicon	**Layers** Delaminations of Thin Layers by High Dose H	8	L166
Amorphization of Thin Si	**Layers** by Arsenic Ion Implantation	3	L67
on on Insulator Silicon Layers Delaminations of Thin	**Layers** by High Dose Hydrogen Ion Implantation in Silicon. Formation of Thin Silic	8	L166
Rapid Thermal Annealing Behavior of Amorphous SiC	**Layers** Deposited by Electron Cyclotron Resonance Plasma	1	271
Etch-Stop Behavior of Buried	**Layers** Formed by Substoichiometric Nitrogen Ion Implantation into Silicon	3	1026
Dislocation Etch Pits in GaN Epitaxial	**Layers** Grown on Sapphire Substrates	1	L17
Microstructural Properties of Helium Implantad Void	**Layers** in Silicon as Related to Front-Side Gettering	2	725
Conducting and Charge-Trapping Defects in Buried Oxide	**Layers** of SIMOX Structures	1	347
The Effects of Multiple Electroplated Zinc	**Layers** on the Inhibition of Hydrogen Permeation Through an Iron Membrane	6	1871
entary Electrochemical Processes Taking Place during Oxygen Evolution on the	**Lead** Dioxide Electrode Mechanism of the Elem	11	3616
Sweep Voltammetry Kinetics of Oxidation Processes on	**Lead** Electrode in H2SO4. III. A Study of the Growth of the PbO Layer by Linear	4	1157
Float Charging of Valve-Regulated	**Lead-Acid** Batteries: A Balancing Act Between Secondary Reactions	3	790
High-Performance Positive Paste for	**Lead-Acid** Batteries	9	2841
Preparation of	**Lead-Zirconium-Titanium** Film and Powder by Electrodeposition	1	97
wn by Chemical Vapor Deposition	**Leakage** Current Mechanism of Amorphous and Polycrystalline Ta2O5 Films Gro	3	977
Interpretation of Carrier Recombination Lifetime and Diffusion	**Length** Measurements in Silicon	4	1399
Modeling of Plated Through-Hole Processes. II. Effect of	**Leveling** Agents on Current Distribution	10	3144
Blocking Inhibitors in Cathodic	**Leveling.** I. Theoretical Analysis	12	3827
Blocking Inhibitors in Cathodic	**Leveling.** II. Experimental Investigation	12	3836
Rechargeable 3 V	**Li** Cells Using Hydrated Lamellar Manganese Oxide	11	3429
The Application of Atomic Force Microscopy for the Study of	**Li** Deposition Processes	11	3525
onate Mixtures A Comparative Study of Synthetic Graphite and	**Li** Electrodes in Electrolyte Solutions Based on Ethylene Carbonate-Dimethyl Carb	12	3809
A Kinetic Study of Lithium Transport in a New	**Li** Intercalation Material Al0.11V2O5.15 Synthesized via a Sol-Gel Process	7	2083
Fabrication of Thin Film LiCo0.5Ni0.5O2 Cathode for	**Li** Rechargeable Microbattery	11	L268
The Reaction of Clean	**Li** Surfaces with Small Molecules in Ultrahigh Vacuum. I. Dioxygen	2	422
Electrochromic Behavior of a Lambda-MnO2 Electrode Accompanying	**Li+** -Insertion in an Aqueous Phase	3	905
Stress in Carbon Film Electrodes during	**Li+** Electrochemical Intercalation	8	2417
AC Impedance Analysis for	**Li+** Insertion of a Pt/Lambda-MnO2 Electrode in an Aqueous Phase	8	2610
Synthesis and Characterization of Li1+xMn2-xO4 for	**Li-Ion** Battery Applications	1	100
New Electrolyte System for	**Li-Ion** Battery	9	L195
Ethylmethylcarbonate, a Promising Solvent for	**Li-Ion** Rechargeable Batteries	12	L273
An Investigation of Lithium Ion Insertion into Spinel Structure	**Li-Mn-O** Compounds	3	825
Physical and Electrochemical Characterization of Quaternary	**Li-Mn-V-O** Spinel as Positive Materials for Rechargeable Lithium Batteries	3	1007
Deformation Mechanism of Porous Nickel Oxide in Molten	**Li/K** Carbonates	8	2481
Crystal Growth of gamma-Lithium Aluminate in Molten	**Li/K** Carbonates	9	2776
Lithiation of Alumina in Molten	**Li/K** Carbonates	11	3456
Electrodes: A New Diagnostic Tool for Analysis of Capacity Fading in Secondary	**Li/LiMn2O4** Cells FTIR Spectroscopy of Metal Oxide Insertion	6	L136
Dissolution of Spinel Oxides and Capacity Losses in 4 V	**Li/LixMn2O4** Cells	7	2204
A New Three-Volt Spinel	**Li1+xMn1.5Ni0.5O4** for Secondary Lithium Batteries	5	1607
The High Temperature Phase Diagram of	**Li1+xMn2-xO4** and Its Implications	6	1783
Synthesis and Characterization of	**Li1+xMn2-xO4** for Li-Ion Battery Applications	1	100
es Optimization of the Composition of the	**Li1-zNi1+zO2** Electrode Materials: Structural, Magnetic, and Electrochemical Studi	4	1168
	Li9SiAlO8: A Lithium Ion Electrolyte for Voltages above 5.4 V	7	2198
Dehydroxylation of	**LiAlCl4.xSO2** Electrolytes Using Chlorine	11	3585
Wet and Dry Etching of LiGaO2 and	**LiAlO2**	8	L169
Synthesis of	**LiCH(SO2CF3)2** and Ionic Conductivity of Polyether-Salt Complexes	4	1297
Thermodynamic Properties of U, Np, Pu, and Am in Molten	**LiCl-KCl** Eutectic and Liquid Cadmium	8	2487
Fabrication of Thin Film	**LiCo0.5Ni0.5O2** Cathode for Li Rechargeable Microbattery	11	L268
Electrodes In Situ Conductivity Measurements of	**LiCoO2** Film during Lithium Insertion/Extraction by Using Interdigitated Microarray	10	3157
Electrochemical Behavior of LiMn2O4 and	**LiCoO2** Thin Films Produced with Pulsed Laser Deposition	6	1821
The Redox Chemistry of Niobium(V) Fluoro and Oxofluoro Complexes in	**LiF-NaF-KF** Melts	6	1793
Electrochemical Behavior of Boron in	**LiF-NaF-KF** Melts	10	3178
ynthesis, Structure, and Electrochemical Properties of a New Lithium Iron Oxide,	**LiFeO2,** with a Corrugated Layer Structure S	8	2435
Interpretation of Carrier Recombination	**Lifetime** and Diffusion Length Measurements in Silicon	4	1399
Identification Possibility of Metallic Impurities in p-Type Silicon by	**Lifetime** Measurement	1	216
Impact of Fe and Cu Contamination on the Minority Carrier	**Lifetime** of Silicon Substrates	9	3014
A Search for the Mechanism of Direct Copper Plating via Bridging	**Ligands**	11	3521
Wet and Dry Etching of	**LiGaO2** and LiAlO2	8	L169
dium Ions in Metal Oxide Semiconductor Structures by Annealing with Ultraviolet	**Light** Passivation of So	10	3389
Multiple Source Quantum Well Model of Porous Silicon	**Light** Emission	4	1394
Current Responses to an Impulse Laser	**Light** Illumination in Semiconductor Electrodes	7	2220
Modulation Spectroscopy of Subbandgap	**Light** in Reduced TiO2 Electrodes	11	3800
Nonparticulate Origins of	**Light** Point Defects on Polished Silicon Wafers	8	2068
otostimulated Luminescence of BaFX:Eu2+ and BaFCl:Pr3+ under Near-Infrared	**Light** Stimulation Response Time of Ph	7	2346
	Light-Emitting Porous Silicon from Cast Metallurgical-Grade Silicon	6	L115
Preparation and Electrochemical Characterization of Micron-Sized Spinel	**LiMn2O4**	5	1591
Electrochemical Behavior of	**LiMn2O4** and LiCoO2 Thin Films Produced with Pulsed Laser Deposition	6	1821
Synthesis and Electrochemical Studies of Spinel Phase	**LiMn2O4** Cathode Materials Prepared by the Pechini Process	3	879
emperature and Dopants Electrochemical Characteristics of Spinel Phase	**LiMn2O4-Based** Cathode Materials Prepared by the Pechini Process. Influence of	11	3690
The Spinel Phases	**LiMyMn2-yO4** (M = Co, Cr, Ni) as the Cathode for Rechargeable Lithium Batteries	1	179
	Linear Algebra Used to Determine Independent Half-Cell Equations	6	1781
Electrodeposition of Fe-C Alloys from Baths Containing Dicarboxylic Acids with a	**Linear** Alkyl Chain	8	2584
e Poly[oxymethylene oligo-(oxy-ethylene)]/Lithium Metal Interface. Comparison of	**Linear,** Cross Linked, and Alkylated Electrolyte Films Study of th	4	1292
ses on Lead Electrode in H2SO4. III. A Study of the Growth of the PbO Layer by	**Linear** Sweep Voltammetry Kinetics of Oxidation Proces	4	1157
Electromigration Drift Velocity in Al-Alloy and Cu-Alloy	**Lines**	3	1001
hylene oligo-(oxy-ethylene)]/Lithium Metal Interface. Comparison of Linear, Cross	**Linked,** and Alkylated Electrolyte Films Study of the Poly[oxymet	4	1292
Crystallite Size Effects of Carbon-Supported Platinum on Oxygen Reduction in	**Liquid** Acids	1	16
Thermodynamic Properties of U, Np, Pu, and Am in Molten LiCl-KCl Eutectic and	**Liquid** Cadmium	8	2487
Effect of Methanol Crossover in a	**Liquid-Feed** Polymer-Electrolyte Direct Methanol Fuel Cell	8	2601
Photoassisted	**Liquid-Phase** Deposition of Silicon Dioxide	8	2044
Stress in	**Liquid-Phase** Deposited Oxide Films	8	2658
The Intrinsic Anodic Stability of Several Anions Comprising Solvent-Free Ionic	**Liquids**	3	798
Microstructural Characterization of	**Lithiated** Graphite	6	L120
	Lithiation of Alumina in Molten Li/K Carbonates	11	3456
All-Solid-State Measurements of Electrical Properties of Passive Films on	**Lithium**	5	1690

		Issue	Page
In Situ Optical Microscopy Investigations of	**Lithium and Sodium Film Formation in Buffered Room Temperature Molten Salts**	7	L145
olten Salts Electrodeposition and Stripping of	**Lithium and Sodium on Inert Electrodes in Room Temperature Chloroaluminate M**	3	908
A Novel Electrolyte Solvent for Rechargeable	**Lithium and Lithium-Ion Batteries**	12	4047
dvanced Polymer Electrolytes and Their Relevance in Plastic-Like, Rechargeable	**Lithium Batteries** A New Class of A	1	6
New Carbon Electrodes for Secondary	**Lithium Batteries**	5	L95
Synthesis of Amorphous MoO2+delta and Its Electrode Performance in	**Lithium Batteries**	7	L143
Spinel Phases LiMyMn2-yO4 (M = Co, Cr, Ni) as the Cathode for Rechargeable	**Lithium Batteries** The	1	178
Inorganic Electrolyte Solutions and Gels for Rechargeable	**Lithium Batteries**	9	L209
terization of Quaternary Li-Mn-V-O Spinel as Positive Materials for Rechargeable	**Lithium Batteries** Physical and Electrochemical Charac	3	1007
A New Three-Volt Spinel Li1+xMn1.5Ni0.5O4 for Secondary	**Lithium Batteries**	5	1607
Differential Measurement of Nonlinear Electrical Relaxation of	**Lithium Batteries**	10	3148
Characterization of Thin-Film Rechargeable	**Lithium Batteries with Lithium Cobalt Oxide Cathodes**	10	3203
A New Class of Electrochemically and Thermally Stable Lithium Salts for	**Lithium Battery Electrolytes. II. Conductivity of Lithium Organoborates in Dimetho**	11	3565
A New Class of Electrochemically and Thermally Stable Lithium Salts for	**Lithium Battery Electrolytes. III Synthesis and Properties of Some Lithium Organ**	11	3572
rcalation Compounds: Structural Characteristics and Electrochemical Insertion of	**Lithium Cations** Vanadium Oxide Fluoride-Graphite Inte	7	2093
Solid-State	**Lithium Cells Based on Fluorinated Fullerene Cathodes**	7	2267
Electrochemical Characteristics of Crystalline and Amorphous SnS2 in	**Lithium Cells**	9	2847
Characterization of Thin-Film Rechargeable Lithium Batteries with	**Lithium Cobalt Oxide Cathodes**	10	3203
ce Study of Deposition and Dissolution Processes of	**Lithium in Carbonate-Based Solutions by Means of the Quartz-Crystal Microbalan**	8	2517
Chemical Diffusion Coefficient of	**Lithium in Carbon Fiber**	8	2606
Molecular Dynamics Studies of	**Lithium Injection in Model Cathode/Electrolyte Systems**	7	2211
7Li-Nuclear Magnetic Resonance Observation of	**Lithium Insertion into Mesocarbon Microbeads**	6	1923
Hysteresis during	**Lithium Insertion in Hydrogen-Containing Carbons**	7	2137
s	**Lithium Insertion Processes of Orthorhombic NaxMnO2-Based Electrode Material**	8	2507
ures In Situ Raman Study of Electrochemical	**Lithium Insertion into Mesocarbon Microbeads Heat-Treated at Various Temperat**	8	2572
Physical Property Change of FeOOH(AD)1/4 during	**Lithium Insertion and Extraction**	9	2713
In Situ Conductivity Measurements of LiCoO2 Film during	**Lithium Insertion/Extraction by Using Interdigitated Microarray Electrodes**	10	3157
	Lithium Intercalation of Carbon-Fiber Microelectrodes	1	24
Effects of the Organic Solvent on the Electrochemical	**Lithium Intercalation Behavior of Graphite Electrode**	2	L26
Electrochemical	**Lithium Intercalation into a Polyaniline/V2O5 Nanocomposite**	9	L181
Reactivity of	**Lithium Intercalated into Petroleum Coke with Carbonate Electrolytes**	2	391
Modeling	**Lithium Intercalation of Single-Fiber Carbon Microelectrodes**	2	600
Electrochemical	**Lithium Intercalation in VO2(B) in Aqueous Electrolytes**	9	2730
Optomechanical Studies of	**Lithium Intercalation in Amorphous Molybdenum Thin Films**	9	2822
Structure and	**Lithium Intercalation Properties of Synthetic and Natural Graphite**	11	3486
Correlation Between	**Lithium Intercalation Capacity and Microstructure in Hard Carbons**	11	3482
Effect of Mechanical Grinding on the	**Lithium Intercalation Process in Graphites and Soft Carbons**	12	3959
Electrochemical Insertion of	**Lithium into Carbon Synthesized from Condensed Aromatics**	7	2235
Improved Graphite Anode for	**Lithium Ion Batteries Chemically Bonded SEI and Nanochannel Formation**	1	L4
ce Determination of	**Lithium Ion Transference Numbers by Electrophoretic Nuclear Magnetic Resonan**	6	L107
An Investigation of	**Lithium Ion Insertion into Spinel Structure Li-Mn-O Compounds**	3	825
Application of Neutron Radiography to Visualize the Motion of Lithium Ions in	**Lithium Ion Conducting Materials**	6	1866
Li9SiAlO8: A	**Lithium Ion Electrolyte for Voltages above 5.4 V**	7	2198
Application of Neutron Radiography to Visualize the Motion of	**Lithium Ions in Lithium Ion Conducting Materials**	6	1866
Synthesis, Structure, and Electrochemical Properties of a New	**Lithium Iron Oxide, LiFeO2, with a Corrugated Layer Structure**	8	2435
Thermally Stable Lithium Salts for Lithium Battery Electrolytes. II. Conductivity of	**Lithium Organoborates in Dimethoxyethane and Propylene Carbonate** A N	11	3565
thium Salts for Lithium Battery Electrolytes. III. Synthesis and Properties of Some	**Lithium Organoborates** A New Class of Electrochemically and Thermally S	11	3572
Overcharge Protection for Rechargeable	**Lithium Polymer Electrolyte Batteries**	12	3992
A Vibrational Spectroscopic Study on the Interaction Between	**Lithium Salt and Ethylene Carbonate Plasticizer for PAN-based Electrolytes**	5	1510
pylene Carbonate A New Class of Electrochemically and Thermally Stable	**Lithium Salts for Lithium Battery Electrolytes. II. Conductivity of Lithium Organobo**	11	3565
m Organoborates A New Class of Electrochemically and Thermally Stable	**Lithium Salts for Lithium Battery Electrolytes. III. Synthesis and Properties of Som**	11	3572
ptors and the Studies of Their Effect on Ion Pair Dissociation and Conductivity of	**Lithium Salts in Nonaqueous Solutions** The Synthesis of a New Family of	12	3825
ia a Sol-Gel Process A Kinetic Study of	**Lithium Transport in a New Li Intercalation Material Al0.11V2O5.15 Synthesized v**	7	2083
Electrochemical Stability of Electrolytes Containing Organic Solvent Mixtures with	**Lithium tris(Trifluoromethanesulfonyl)methide** Conductivity and	4	L80
imethylformamide, and Nitromethane at 25 C Conductance of Solutions of	**Lithium tris(Trifluoromethanesulfonyl) Methide in Water, Acetonitrile, Propylene C**	1	154
Electrochemical Deposition of Very Smooth	**Lithium Using Nonaqueous Electrolytes Containing HF**	7	2187
A High-Rate Carbon Electrode for Rechargeable	**Lithium-Ion Batteries**	3	L84
of Chloroethylene Carbonate as an Electrolyte Solvent for a Graphite Anode in a	**Lithium-Ion Battery** Use	7	2230
Thermal Analysis of	**Lithium-Ion Batteries**	9	2708
Optimizing Pyrolysis of Sugar Carbons for Use as Anode Materials in	**Lithium-Ion Batteries**	10	3046
A Novel Electrolyte Solvent for Rechargeable Lithium and	**Lithium-Ion Batteries**	12	4047
Comparison of Modeling Predictions with Experimental Data from Plastic	**Lithium-Ion Cells**	6	1890
A Polymer Electrolyte-Based Rechargeable	**Lithium/Oxygen Battery**	1	1
Performance of	**Lithium/V2O5 Xerogel Coin Cells**	11	3473
eloping Characteristics of Si Containing Polymers and Their Application to X-Ray	**Lithography** Self-Dev	2	657
Ultraviolet Depth	**Lithography and Galvanoforming for Micromachining**	1	237
Comparison of	**LiV3O8 Cathode Materials Prepared by Different Methods**	3	820
g Diffusion Coefficients of Thin Film Battery Electrodes. Results for LiyCoO2 and	**LixC6 Thin Films** A Transient Method for Measurin	6	L129
CoO2, The End Member of the	**LixCoO2 Solid Solution**	3	1114
d for Measuring Diffusion Coefficients of Thin Film Battery Electrodes. Results for	**LiyCoO2 and LixC6 Thin Films** A Transient Metho	6	L129
sed on Highly Porous Carbonized Polyacrylonitrile Foam with Very Low Platinum	**Loading** A New Fuel Cell Electrocatalyst Ba	1	L7
	Local Monitoring of Diamond Nucleation Density	3	1061
High Temperature	**Local Oxidation of Silicon Field Isolation Morphological Characterization**	11	L259
Nano-Trenched	**Local Oxidation of Silicon Isolation Using Island Polysilicon Grains**	2	639
Scanning Microsensors for Measurement of	**Local pH Distributions at the Microscale**	8	L174
Behavior of Dissolved Molybdenum during	**Localized Corrosion of Austenitic Stainless Steel**	12	L277
	Location of Corrosion on Iron and Carbon Steel Surfaces with Crevices	8	L178
Interpretation of the Power Response of a Fuel Cell with a Quadratic	**Logistic Differential Equation**	6	L113
A New	**Long Phosphorescent Phosphor with High Brightness, SrAl2O4:Eu2+,Dy3+**	8	2870
Etching Profiles and Neutral Shadowing in	**Long Trenches**	2	672
Inductive	**Loops in Impedance Spectroscopy Caused by Electrical Shielding**	11	3638
ed Oxygen Plasma Etching of Polyurethane-Based Electro-optic Polymer for Low	**Loss Optical Waveguide Fabrication** Optimiz	11	3648
Dissolution of Spinel Oxides and Capacity	**Losses in 4 V Li/LixMn2O4 Cells**	7	2204
Active Species in the Electrolyte Photocurrent	**Losses in Nanocrystalline/Nanoporous TiO2 Electrodes Due to Electrochemically**	10	3173
tor Materials	**Low-Background Instrumental Neutron Activation Analysis of Silicon Semiconduc**	1	339
Carbon Implantation Photoluminescence Measurements of	**Low-Level Oxygen in Thin Silicon Crystal Using a C-O Complex Formed Through**	9	2876
on H2 Cleaning of Silicon Wafers before	**Low-Temperature Epitaxial Growth by Ultrahigh Vacuum/Chemical Vapor Depositi**	7	2361
	Low-Temperature Out-Diffusion of Cu from Silicon Wafers	6	2025
A Model of	**Low-Temperature Wafer Bonding and Its Applications**	5	1773
Synthesis and	**Low-Voltage Characteristics of CaTiO3:Pr Luminescent Powders**	10	L231
ent Barrier Height	**Lowering and Instability of Gate Oxides Due to Dilute Hydrofluoric Acid Pretreatm**	3	973
Batch Reactor Kinetic Studies of Tungsten	**LPCVD from Silane and Tungsten Hexafluoride**	1	296
Electrochemical Reduction of	**Lucigenin on Mercury in Aqueous Media**	7	2132
Luminescence of Cs2NbOF5: Vibrational Structure in [NbOF5]2-	**Luminescence**	10	L234
RMOSIL Matrix Using a Sol-Gel Method	**Luminescence Characteristics of the Lanthanide Complex Incorporated into an O**	10	3333
Electromodulation of	**Luminescence in Organic Photoconductors**	1	315
Intramolecular Energy Transfer and Mn4+	**Luminescence in Polyoxometallomanganate Lattices**	5	1678
The Intermediate Role of the Gd3+ Ions in the Efficiency of the Host-Sensitized	**Luminescence in the Lanthanum Metaborate Host Lattice**	1	330
on Response Time of Photostimulated	**Luminescence of BaFX:Eu2+ and BaFCl:Pr3+ under Near-Infrared Light Stimulati**	7	2348
	Luminescence of Cs2NbOF5: Vibrational Structure in [NbOF5]2- Luminescence	10	L234
	Luminescence of Mn4+ in the Distorted Perovskite Gd2MgTiO6	9	L203
Photon Cascade	**Luminescence of Pr3+ in LaMgB5O10**	12	4113

		Issue	Page
Synthesis and Low-Voltage Characteristics of CaTiO3:Pr	Luminescent Powders	10	L231

— M —

Predictions from the	Macrohomogeneous Model of an Aerospace Ni-Cd Battery		3	803
Processing of Three-Dimensional Microstructures Using	Macroporous n-Type Silicon		1	386
uperior Oxygen Ion Conductivity of Lanthanum Gallate Doped with Strontium and	Magnesium	S	8	1844
Structure of Anodic Films Formed on	Magnesium		3	L62
Cells with Sodium Hypochlorite or Chlorite and Anodes of	Magnesium or Aluminum		10	3133
Electrodeposited	Magnetic Alloys for Surface Micromachining		10	3343
timization of the Composition of the Li1-zNi1+zO2 Electrode Materials: Structural,	Magnetic, and Electrochemical Studies	Op	4	1188
Anodic Dissolution of Iron in a	Magnetic Field with Holographic Microphotography		12	L283
Electrodeposition of Cu/Fe20Ni80	Magnetic Multilayers		5	L98
Determination of Lithium Ion Transference Numbers by Electrophoretic Nuclear	Magnetic Resonance		6	L107
s 7Li-Nuclear	Magnetic Resonance Observation of Lithium Insertion into Mesocarbon Microbead		6	1923
Fluorine-Doped Tin Dioxide Thin Films Prepared by Radio-Frequency	Magnetron Sputtering		1	283
hin Films of Amorphous Germanium-Carbon Alloy Prepared by Radio-Frequency	Magnetron Sputtering	T	12	4087
Computational Chemistry Predictions of Kinetics and	Major Reaction Pathways for Germane Gas-Phase Reactions		8	2648
ion Use of di-Pi-cyclopentadienyl	Manganese as a Dopant Source for ZnS in Metallorganic Chemical Vapor Deposit		12	4116
Sol-Gel-Derived Thin-Film	Manganese Dioxide Cathodes		5	1629
Galvanic Interaction Between	Manganese Dioxide and Pyrite		12	3987
Rechargeable 3 V Li Cells Using Hydrated Lamellar	Manganese Oxide		11	3429
Electrochemical Behavior of the	Manganese-Substituted Nickel Hydroxides		2	561
Stability of Lanthanum Calcium Chromite-Lanthanum Strontium	Manganite Interfaces in Solid Oxide Fuel Cells		7	2332
Catalytic Activities of Rare-Earth	Manganites for Cathodic Reduction of Oxygen in Alkaline Solution		11	L266
New Method of Purification of HF Chemicals for Very Large Scale Integration	Manufacturing		12	4119
aterials Reliability Evaluation of	Manufacturing Processes for Bipolar and MOS Devices on Silicon-on-Diamond M		4	1326
ed Electrons on Inductively Coupled Plasma Etching of a Si Wafer Through an Al	Mask	Effects of Transmitt	11	3782
The Use of a Double	Mask System to Prevent Ti Diffusion from a Ti/Pt/Au Ohmic Contact on Diamond		7	2392
machining Effect of	Mask Wall Angle on Shape Evolution during Through-Mask Electrochemical Micro		2	544
ell Real-Time	Mass Spectrometric Study of the Methanol Crossover in a Direct Methanol Fuel C		4	1233
Thermodynamic Heat Transfer and	Mass Transport Modeling of the Sublimation Growth of Silicon Carbide Crystals		11	3727
Formic Acid Oxidation in a Polymer Electrolyte Fuel Cell. A Real-Time	Mass-Spectrometry Study		7	L158
nical Processing Procedures on the Decomposition Rate of Silver Oxide Cathode	Material	The Effect of Mecha	3	418
A Kinetic Study of Lithium Transport in a New Li Intercalation	Material Al0.11V2O5.15 Synthesized via a Sol-Gel Process		7	2083
A Study on Low Dielectric	Material Deposition Using a Helicon Plasma Source		9	2990
romic Coatings. Composites of Polyaniline and Polyacrylate-Silica Hybrid Sol-Gel	Materials	Large-Area Electroch	8	2591
on Radiography to Visualize the Motion of Lithium Ions in Lithium Ion Conducting	Materials	Application of Neutr	6	1866
w-Background Instrumental Neutron Activation Analysis of Silicon Semiconductor	Materials	Lo	1	339
of Manufacturing Processes for Bipolar and MOS Devices on Silicon-on-Diamond	Materials	Reliability Evaluation	4	1326
Lithium Insertion Processes of Orthorhombic NaxMnO2-Based Electrode	Materials		8	2567
ensitive Etchants for Delineation of Defects in Single- and Polycrystalline Silicon	Materials	Highly S	12	4079
Variable Diffusivity in Intercalation	Materials. A Theoretical Approach		4	1287
Chromium Vapor Species over Solid Oxide Fuel Cell Interconnect	Materials and Their Potential for Degradation Processes		11	3642
Silver-BaCe0.8Gd0.2O3 Composites as Cathode	Materials for SOFCs Using BaCeO3-Based Electrolytes		3	889
and Electrochemical Characterization of Quaternary Li-Mn-V-O Spinel as Positive	Materials for Rechargeable Lithium Batteries	Physical	3	1007
Characterization of Sr-Doped LaMnO3 and LaCoO3 as Cathode	Materials for a Doped LaGaO3 Ceramic Fuel Cell		11	3630
s	Materials for Electrochemical Capacitors. Theoretical and Experimental Constraint		11	3791
Optimizing Pyrolysis of Sugar Carbons for Use as Anode	Materials in Lithium-Ion Batteries		10	3648
Comparison of LiV3O8 Cathode	Materials Prepared by Different Methods		3	820
Synthesis and Electrochemical Studies of Spinel Phase LiMn2O4 Cathode	Materials Prepared by the Pechini Process		3	879
Electrochemical Characteristics of Spinel Phase LiMn2O4-Based Cathode	Materials Prepared by the Pechini Process. Influence of Firing Temperature and		11	3690
Optimization of the Composition of the Li1-zNi1+zO2 Electrode	Materials: Structural, Magnetic, and Electrochemical Studies		4	1168
py in the Presence of Convective Flow under Steady-State Conditions: A Unified	Mathematical Formalism	In Situ Spectrosco	11	3539
tating Disk Electrode	Mathematical Modeling of Electroless Nickel Deposition at Steady State Using Ro		2	505
Induced Codeposition. II. A	Mathematical Model Describing the Electrodeposition of Ni-Mo Alloys		3	893
Fe-Ni-SiO2 Composites under Potentiostatic Conditions. Experimental Study and	Mathematical Model	Anomalous Codeposition of Fe-Ni Alloys and	7	2184
A Multiphase	Mathematical Model of a Nickel/Hydrogen Cell		10	3223
A	Mathematical Model for a Thick Porous Metal-Hydride Electrode in Discharge		12	3972
(p-phenylene terephthalamide) Film Immobilizing Oligomer Species as a Colored	Matrix for Three-Color Electrochromic Displays	Poly	9	L212
cence Characteristics of the Lanthanide Complex Incorporated into an ORMOSIL	Matrix Using a Sol-Gel Method	Lumines	10	3333
Improved Within-Wafer Uniformity Modeling Through the Use of	Maximum-Likelihood Estimation of the Mean and Covariance Surfaces		10	3404
equency of 47 GHz Double-Layer	mc-Si/a-SiCx Emitter in a Silicon Heterojunction Bipolar Transistor with a Cutoff Fr		6	1949
stigation of Alkali Carbonate Transport Toward the Catalyst in Internal Reforming	MCFCs	Inve	10	3186
r Uniformity Modeling Through the Use of Maximum-Likelihood Estimation of the	Mean and Covariance Surfaces	Improved Within-Wafe	10	3404
arbons Effect of	Mechanical Grinding on the Lithium Intercalation Process in Graphites and Soft C		12	3969
Microscale Dishing Effect in a Chemical	Mechanical Planarization Process for Trench Isolation		12	L291
Near-Global Planarization of Oxide-Filled Shallow Trenches Using Chemical	Mechanical Polishing		11	3718
mistry of Chemical Vapor Deposited Tungsten Films with Relevance to Chemical	Mechanical Polishing	Electroche	12	4095
thode Material The Effect of	Mechanical Processing Procedures on the Decomposition Rate of Silver Oxide Ca		2	418
rothermal BaTiO3 Thin Films on Ti-Covered Silicon: Characterization and Growth	Mechanism	Hyd	3	1133
s Formation	Mechanism and Anticorrosive Properties of Thin Siloxane Films on Metal Surface		1	251
Influence of the Initial Electrochemical Potential on the Growth	Mechanism and Properties of Anodic Oxides on (100) Si		9	2531
Modeling of the Wear	Mechanism during Chemical-Mechanical Polishing		2	716
Electronic Conduction	Mechanism in Yttria-Stabilized Zirconia-Titania under Reducing Atmospheres		11	3706
A Study of the Oxidation Slow-Down	Mechanism Induced by Carbon Contamination on Silicon Surface		9	2968
apor Deposition Leakage Current	Mechanism of Amorphous and Polycrystalline Ta2O5 Films Grown by Chemical V		3	977
rous Silicon	Mechanism of AC Electrical Transport of Carriers in Freshly Formed and Aged Po		12	3943
apor Deposition On The	Mechanism of Boron Incorporation during Silicon Epitaxy by Means of Chemical V		2	634
A Search for the	Mechanism of Direct Copper Plating via Bridging Ligands		11	3521
Kinetics and	Mechanism of Electroless Deposition of Copper		2	510
Deformation	Mechanism of Porous Nickel Oxide in Molten Li/K Carbonates		8	2481
e Construction and Working	Mechanism of Sulfur Dioxide Sensor Utilizing Stabilized Zirconia and Metal Sulfat		2	609
Self-Discharge	Mechanism of Sealed-Type Nickel/Metal-Hydride Battery		6	1904
Pyrolysis	Mechanism of Silanes, Difluorosilane, and Their Mixtures		6	1996
mina Melts An Impedance Study of the Kinetics and	Mechanism of the Anodic Reaction on Graphite Anodes in Saturated Cryolite-Alu		6	1840
Kinetics and	Mechanism of the Etching of CoSi2 in HF-Based Solutions		10	3245
ygen Evolution on the Lead Dioxide Electrode	Mechanism of the Elementary Electrochemical Processes Taking Place during Ox		11	3616
	Mechanisms for Oxidation and Passive Behavior of Nickel in Molten Carbonate		7	2272
The	Mechanisms of Iron Gettering in Silicon by Boron Ion-Implantation		4	1406
Dissociative	Mechanisms of Monosilane and Arsine on Copper(II) Oxide		8	2654
Surface Electronic Structures and Photoluminescence	Mechanisms of Porous Si		8	2502
Chromium in Aqueous Solutions by Polypyrrole. II. Thermodynamic, Kinetic, and	Mechanistic Aspects	Reduction of Hexavalent	1	44
tral Analysis of In Situ Atomic Force Microscopic Images	Mechanistic Study of Copper Deposition onto Gold Surfaces by Scaling and Spec		10	3122
Electrochemical Reduction of Lucigenin on Mercury in Aqueous	Media		7	2132
Photolytic and Photocatalytic Destruction of Formaldehyde in Aqueous	Media		5	1562
Spectrophotometric and Electrochemical Study of Gold-Iodide in Aqueous Borate	Medium		11	3477
ic Oxidation of Ethylenediaminetetraacetic Acid on Platinum Electrode in Alkaline	Medium	Anod	5	1638
Au(III) in Borate	Medium: Electrochemical Behavior and Application to Electroplating		4	1201
nium Catalysts in (H2 + CO2 + H2O) Gas High-Performance Electrode for	Medium-Temperature Operating Solid Oxide Fuel Cells. Polarization of Ceria-Bas		5	1700
of Sodium from a Room Temperature 1,2-Dimethyl-3-propylimidazolium Chloride	Melt	Plating and Stripping	7	2262
ping of Sodium from a Room Temperature 1-Methyl-3-propylimidazolium Chloride	Melt	Plating and Strip	12	3820

		Issue	Page
Asymmetric Distribution of Oxygen Concentration in the Si	**Melt** of a Czochralski System	2	722
Electrochemical Behavior of Boron in LiF-NaF-KF	**Melts**	10	3178
hanism of the Anodic Reaction on Graphite Anodes in Saturated Cryolite-Alumina	**Melts** An Impedance Study of the Kinetics and Mec	6	1840
Redox Chemistry of Niobium(V) Fluoro and Oxofluoro Complexes in LiF-NaF-KF	**Melts** The	6	1793
CoO2, The End	**Member** of the LixCoO2 Solid Solution	3	1114
romine from Waste Gas-Phase Hydrogen Bromide Streams Using an Electrolytic	**Membrane** Recovery of B	9	L184
ctroplated Zinc Layers on the Inhibition of Hydrogen Permeation Through an Iron	**Membrane** The Effects of Multiple Ele	6	1871
Proton Transport Through Polyethylene-Tetrafluoroethylene-Copolymer-Based	**Membrane** Containing Sulfonic Acid Group Prepared by RIGP	9	2795
Performance Data of a Proton Exchange	**Membrane** Fuel Cell Using H2/CO as Fuel Gas	12	3838
Determination of Improved Selectivity Coefficients of Polymer	**Membrane** Ion-Selective Electrodes by Conditioning with a Discriminated Ion	4	L83
Selective Oxidation of Propene Using an Electrochemical	**Membrane** Reactor with CeO2-Based Solid Electrolyte	4	1264
Self-Humidifying Polymer Electrolyte	**Membranes** for Fuel Cells	12	3847
y of the Transport of Formaldehyde and Ethylene Glycol Through Ion Permeable	**Membranes** in Electrolytic Cells A Stud	1	175
electrode Investigation of Oxygen Permeation in Perfluorinated Proton Exchange	**Membranes** with Different Equivalent Weights Micro	3	927
ion Formation Model of Trench-Induced Dislocations in Dynamic Random Access	**Memories** A Dislocat	1	210
Possible Cause of the	**Memory** Effect Observed in Nickel-Cadmium Secondary Batteries	10	L225
Reducing Atmospheres. I. Contact Angle and Electrolyte Displacement	**Meniscus** Behavior of Metals and Oxides in Molten Carbonate under Oxidant and	8	2442
A Study on Development of an Electrolysis System with Vertically Circulating	**Mercury** Capillary Bundle Electrode and Its Characteristics	9	2717
Natural Organics and Environmental Stability of	**Mercury**. Electrochemical Considerations	6	L123
Electrochemical Reduction of Lucigenin on	**Mercury** in Aqueous Media	7	2132
7Li-Nuclear Magnetic Resonance Observation of Lithium Insertion into	**Mesocarbon** Microbeads	6	1923
In Situ Raman Study of Electrochemical Lithium Insertion into	**Mesocarbon** Microbeads Heat-Treated at Various Temperatures	8	2572
r Deposition	**Mesoscopic** Scale Modeling of Microloading during Low Pressure Chemical Vapo	8	2624
d3+ Ions in the Efficiency of the Host-Sensitized Luminescence in the Lanthanum	**Metaborate** Host Lattice The Intermediate Role of the G	1	330
Analysis of Transient Hydrogen Uptake by	**Metal** Alloy Particles	12	4039
d Water Containing Ammonium Chloride Removal of	**Metal** and Organic Contaminants from Silicon Substrates Using Electrolysis-Ionize	5	1632
Selective Electroplating Between	**Metal** and Semiconductor Electrodes	11	3517
tion of CO2 In Situ Fourier Transform Infrared Spectroscopic Studies on a	**Metal** Complex-Immobilized Polyaniline/Prussian Blue-Modified Electrode and the	11	3806
Studies of	**Metal** Hydride Electrodes Using an Electrochemical Quartz Crystal Microbalance	1	120
Electrochemical Evaluation of LaNi5-xGex	**Metal** Hydride Alloys	9	L205
Application of Porous Electrode Theory on	**Metal** Hydride Electrodes in Alkaline Solution	2	435
Electrochemical Studies on LaNi5-xSnx	**Metal** Hydride Alloys	8	2578
A Novel Plating Process for Microencapsulating	**Metal** Hydrides	8	2596
The Role of	**Metal** Hydrides in Electrode Reactions on Metal Oxide Semiconductors	10	3273
Testing the Role of	**Metal** Hydrolysis in the Anomalous Electrodeposition of Ni-Fe Alloys	12	3918
ms Study of the Poly[oxymethylene oligo-(oxy-ethylene)]/Lithium	**Metal** Interface. Comparison of Linear, Cross Linked, and Alkylated Electrolyte Fil	4	1292
Fading in Secondary Li/LiMn2O4 Cells FTIR Spectroscopy of	**Metal** Oxide Insertion Electrodes: A New Diagnostic Tool for Analysis of Capacity	6	L136
The Role of Metal Hydrides in Electrode Reactions on	**Metal** Oxide Semiconductors	10	3273
Passivation of Sodium Ions in	**Metal** Oxide Semiconductor Structures by Annealing with Ultraviolet Light	10	3359
nd Working Mechanism of Sulfur Dioxide Sensor Utilizing Stabilized Zirconia and	**Metal** Sulfate Construction a	2	609
Formation Mechanism and Anticorrosive Properties of Thin Siloxane Films on	**Metal** Surfaces	1	251
Anomalous Oxidation Reactions at Noble	**Metal** Surfaces at Low Potentials: With Particular Reference to Palladium	3	845
The Effect of Various Naturally Occurring	**Metal-Binding** Compounds on the Electrochemical Behavior of Aluminum	1	114
A Mathematical Model for a Thick Porous	**Metal-Hydride** Electrode in Discharge	12	3972
Analysis and Application of Hydrogen Supplying Process in	**Metal-Oxide-Semiconductor** Structures	11	3771
ally Fabricated High-Barrier Schottky Contacts on n-InP and Their Application for	**Metal-Semiconductor-Metal** Photodetectors Electrochemic	6	1945
A New Potentiometric Sensor for the Detection of Trace	**Metallic** Contaminants in Hydrofluoric Acid	10	L235
Identification Possibility of	**Metallic** Impurities in p-Type Silicon by Lifetime Measurement	1	216
Contribution of Diffusion Interstitial Injection to Gettering of	**Metallic** Impurities in Silicon	1	361
0)Si Substrate Using TiNx and Its Electrical Characteristics as a Shallow Contact	**Metallization** Epitaxial C49-TiSi2 Formation on (10	6	1984
ous Scanning Electrochemical and Photoelectrochemical Microscopy by Use of a	**Metallized** Optical Fiber Simultane	12	3853
Use of di-Pi-cyclopentadienyl Manganese as a Dopant Source for ZnS in	**Metalorganic** Chemical Vapor Deposition	12	4116
Light-Emitting Porous Silicon from Cast	**Metallurgical-Grade** Silicon	6	L115
s. I. Contact Angle and Electrolyte Displacement Meniscus Behavior of	**Metals** and Oxides in Molten Carbonate under Oxidant and Reducing Atmosphere	8	2442
Electrochemical Reaction Cell	**Methacrolein** Production from iso-Butane Using a Au/Yttria-Stabilized Zirconia/Ag	11	L249
Real-Time Mass Spectrometric Study of the	**Methanol** Crossover in a Direct Methanol Fuel Cell	4	1233
ll Effect of	**Methanol** Crossover in a Liquid-Feed Polymer-Electrolyte Direct Methanol Fuel Ce	8	2601
s	**Methanol** Electro-oxidation on Unsupported Pt-Ru Alloys at Different Temperature	5	1685
Real-Time Mass Spectrometric Study of the Methanol Crossover in a Direct	**Methanol** Fuel Cell	4	1233
Systematic Theoretical Study of Alloys of Platinum for Enhanced	**Methanol** Fuel Cell Performance	6	2078
Effect of Methanol Crossover in a Liquid-Feed Polymer-Electrolyte Direct	**Methanol** Fuel Cell	8	2601
In Situ Fourier Transform Infrared-Diffuse Reflection Spectroscopy of Direct	**Methanol** Fuel Cell Anodes and Cathodes	10	3053
y Direct	**Methanol** Fuel Cell Cathodes with Sulfur and Nitrogen-Based Carbon Functionalit	10	3073
Analysis of the Electrochemical Characteristics of a Direct	**Methanol** Fuel Cell Based on a Pt-Ru/C Anode Catalyst	12	3950
Electro-osmotic Drag Coefficient of Water and	**Methanol** in Polymer Electrolytes at Elevated Temperatures	4	1290
High Performance Direct	**Methanol** Polymer Electrolyte Fuel Cells	1	L12
Inhibition Effects of Amines and Thiols on Iron Corrosion in Anhydrous	**Methanol** Solution Containing FeCl3	12	3866
Anodic Oxidation of	**Methanol** Using a New Base Electrocatalyst	7	L139
In Situ FTIR-Diffuse Reflection Spectroscopy of the Anode Surface in a Direct	**Methanol/Oxygen** Fuel Cell	2	L21
at 25 C Conductance of Solutions of Lithium tris(Trifluoromethanesulfonyl)	**Methide** in Water, Acetonitrile, Propylene Carbonate, N,N-Dimethylformamide, and	1	154
n Concentration in Semiconductor Silicon by Infrared Spectrophotometry	**Methodology** for the Certification of Reference Specimens for Determination of O	1	258
Optical Analysis of the Gas Phase during the Deposition of Silicon Carbide from	**Methyltrichlorosilane** In Situ	5	1664
The Hydrogen Storage Properties of New	**Mg2Ni** Alloy	9	L198
Morphology and Structure of Oxide Films Formed on	**MgAl** Alloys by Exposure to Air and Water	8	2564
ements of LiCoO2 Film during Lithium Insertion/Extraction by Using Interdigitated	**Microarray** Electrodes In Situ Conductivity Measur	10	3157
ocesses of Lithium in Carbonate-Based Solutions by Means of the Quartz-Crystal	**Microbalance** Study of Deposition and Dissolution Pr	8	2517
Studies of Metal Hydride Electrodes Using an Electrochemical Quartz Crystal	**Microbalance**	1	120
Response of the Electrochemical Quartz Crystal	**Microbalance** for Gold Electrodes in the Double-Layer Region	7	2240
oring A Quartz Crystal	**Microbalance** Probe Developed for Outdoor In Situ Atmospheric Corrosivity Monit	3	839
In Situ Quartz Crystal	**Microbalance** Studies of Nickel Hydrous Oxide Films in Alkaline Electrolytes	1	37
Fabrication of Thin Film LiCo0.5Ni0.5O2 Cathode for Li Rechargeable	**Microbattery**	11	L268
i-Nuclear Magnetic Resonance Observation of Lithium Insertion into Mesocarbon	**Microbeads** 7L	6	1923
In Situ Raman Study of Electrochemical Lithium Insertion into Mesocarbon	**Microbeads** Heat-Treated at Various Temperatures	8	2572
Characterization of Solution Derived RuO2 Electrodes for Pb(Zr,Ti)O3	**Microcapacitors**	9	3008
on	**Microcontact** Printing of Alkanethiols on Silver and Its Application in Microfabricati	3	1070
The Role of	**Microcracking** in ZrCrNi Hydride Electrodes	2	L31
Annealing	**Microcrystal** Growth on Borophosphosilicate Glass Film during High-Temperature	2	686
Convective Diffusion to a	**Microdisk** Sensor Subject to Uniform Shear Flow	1	197
ange Membranes with Different Equivalent Weights	**Microelectrode** Investigation of Oxygen Permeation in Perfluorinated Proton Exch	3	927
yte Electroreduction of C60 in Aprotic Solvents. III. Voltammetric Study, at	**Microelectrode**, of C60n- (n = 0 to 4) Solvation in the Absence of Supporting Elec	2	550
The Combined Influence of Interfacial Reaction Resistance and Fluid Flow on	**Microelectrode** Sensors	7	2252
Lithium Intercalation of Carbon-Fiber	**Microelectrodes**	1	24
Modeling Lithium Intercalation of Single-Fiber Carbon	**Microelectrodes**	2	600
Plasma Assisted Dry Etching of Cobalt Silicide for	**Microelectronics** Applications	2	701
A Novel Plating Process for	**Microencapsulating** Metal Hydrides	8	2596
Microcontact Printing of Alkanethiols on Silver and Its Application in	**Microfabrication**	3	1070
llumination Electrochemical Quartz Crystal	**Microgravimetry** Study of Zinc Electrode Behavior in a Neutral Solution by Laser I	5	1525
Mesoscopic Scale Modeling of	**Microloading** during Low Pressure Chemical Vapor Deposition	8	2624
Ultraviolet Depth Lithography and Galvanoforming for	**Micromachining**	1	237
Electrodeposited Magnetic Alloys for Surface	**Micromachining**	10	3343
Infrared Spectroscopic Analysis of Phosphosilicate Glass Films for	**Micromachining**	3	968
Investigation of Island Formation during Through-Mask Electrochemical	**Micromachining**	7	2306

		Issue	Page
ct of Mask Wall Angle on Shape Evolution during Through-Mask Electrochemical	**Micromachining** Effe	2	644
tion Oxide Growth Effects in	**Micron** and Submicron Field Regions. A Comparison Between Wet and Dry Oxida	9	2953
Preparation and Electrochemical Characterization of	**Micron-Sized** Spinel LiMn2O4	5	1591
	Micropattern Formation on ZnO Films Using a Photodissolution Reaction	11	3743
Anodic Dissolution of Iron in a Magnetic Field with Holographic	**Microphotography**	12	L283
articles and the Effect of Charge Carrier Density on the Photocatalytic Activity of	**Microporous** Semiconductor Electrode Films Photoelectrochemical Doping	11	3712
Scanning Microsensors for Measurement of Local pH Distributions at the	**Microscale**	8	L174
nch Isolation	**Microscale** Dishing Effect in a Chemical Mechanical Planarization Process for Tre	12	L281
ition onto Gold Surfaces by Scaling and Spectral Analysis of In Situ Atomic Force	**Microscopic** Images Mechanistic Study of Copper Depos	10	3122
Electrode/Electrolyte Solution Interfaces Followed by In Situ Scanning Tunneling	**Microscopy** Kinetics of Particle Coarsening at Gold	2	466
ic Etching of (110) n-Si in Aqueous NH4F: Studies by In Situ Scanning Tunneling	**Microscopy** Atomic-Scale Elucidation of the Anisotrop	12	4012
Large Tilt Angle Ion Implantation Transmission Electron	**Microscopy** and Spectroscopic Ellipsometry Studies of Damage Layer Induced by	8	2836
First Observations of 0.1 um Size Particles on Si Wafers Using Atomic Force	**Microscopy** and Optical Scattering	12	4135
Simultaneous Scanning Electrochemical and Photoelectrochemical	**Microscopy** by Use of a Metallized Optical Fiber	12	3853
Fabrication of GaAs Microtips for Scanning Tunneling	**Microscopy** by Wet Etching	8	2816
The Application of Atomic Force	**Microscopy** for the Study of Li Deposition Processes	11	3525
m Temperature Molten Salts In Situ Optical	**Microscopy** Investigations of Lithium and Sodium Film Formation in Buffered Roo	7	L145
In Situ Atomic Force	**Microscopy** Observations of the Corrosion Behavior of Aluminum-Copper Alloys	8	2471
er Bonding An Atomic Force	**Microscopy** Study on the Roughness of Silicon Wafers Correlated with Direct Waf	7	2365
Planar Compatible Polymer Technology for Packaging of Chemical	**Microsensors**	6	2020
Scanning	**Microsensors** for Measurement of Local pH Distributions at the Microscale	8	L174
	Microstructural Characterization of Lithiated Graphite	6	L120
amic Na+-Fast Ionic Conductors	**Microstructural** Effects on Conduction Properties of Na5YSi4O12-Type Glass-Cer	7	2180
to Front-Side Gettering	**Microstructural** Properties of Helium Implanted Void Layers in Silicon as Related	2	725
Correlation Between Lithium Intercalation Capacity and	**Microstructure** in Hard Carbons	11	3482
Effects of Postdeposition Heat-Treatment on Morphology and	**Microstructure** of CdTe Grown by Electrodeposition	2	617
lymer-Electrolyte Fuel Cells Effects of	**Microstructure** of Carbon Support in the Catalyst Layer on the Performance of Po	7	2245
	Microstructure of Electrodeposited Cu-Ni Binary Alloy Films	6	1978
Collectors. Cathodic Polarization and Ohmic Resistance	**Microstructure-Property** Relations of Solid Oxide Fuel Cell Cathodes and Current	2	530
Processing of Three-Dimensional	**Microstructures** Using Macroporous n-Type Silicon	1	385
Fabrication of GaAs	**Microtips** for Scanning Tunneling Microscopy by Wet Etching	8	2616
High Aspect Ratio	**Microtunnel** Technique to Empirically Model Electroless Deposition	4	L78
itu Infrared Studies of Polyvinyl Chloride Films Exposed to H2/02/Ar Downstream	**Microwave** Plasmas In S	9	2896
Using 13CO and 18O18O Tracers to Study the Removal of Parts per	**Million** CO and O2 from N2 over a Ni-Al2O3 Catalyst	8	2429
Iron(II) Catalysis of the	**Mineralization** of Aniline Using a Carbon-PTFE O2-Fed Cathode	3	L49
Impact of Fe and Cu Contamination on the	**Minority** Carrier Lifetime of Silicon Substrates	9	3014
Electrochemical Properties of	**Mixed** Conducting Perovskites La1-xMxCo1-yFeyO3-delta (M = Sr, Ba, Ca)	9	2722
Capacitive Gas Sensor of	**Mixed** Oxide CoO-In2O3 to Selectively Detect Nitrogen Monoxide	6	1908
ten The Photoelectrochemical Response of TiO2-WO3	**Mixed** Oxide Films Prepared by Thermal Oxidation of Titanium Coated with Tungs	7	2226
de	**Mixed** Potential Type NOx Sensor Based on Stabilized Zirconia and Oxide Electro	2	L33
ctrode	**Mixed** Potential Hydrogen Sensor Combining Oxide Ion Conductor with Oxide Ele	7	L154
X-Ray Absorption Studies of ZnCl2-PEO and	**Mixed** Salt ZnCl2/KCl-PEO and ZnCl2/CsCl-PEO Complexes	10	3198
Effect of Interfacial Resistance on Determination of Transport Properties of	**Mixed-Conducting** Electrolytes	6	L109
d Chemical-Potential Variation in Single-Layer and Multilayer Devices of Different	**Mixed-Conducting** Oxides Analytic Solution for Charge Transport an	10	3214
Electrode Kinetics of Porous	**Mixed-Conducting** Oxygen Electrodes	11	3854
Reactive Ion Etching of Copper Films in an SiCl4, N2, Cl2, and NH3	**Mixture**	12	4089
trodes in Electrolyte Solutions Based on Ethylene Carbonate-Dimethyl Carbonate	**Mixtures** A Comparative Study of Synthetic Graphite and Li Elec	12	3809
Pyrolysis Mechanism of Silanes, Difluorosilane, and Their	**Mixtures**	6	1996
Electrochemical Behavior of WO3 Films in H3PO4/H2O Binary	**Mixtures**	9	2789
s, Prepared by Thermal Oxidation of Electrodeposited Molybdenum Trisulfide, in	**Mixtures** of Nonaqueous and Aqueous Electrolytes Electrochromic Behavio	10	3109
Determination of	**Mixtures** of Polysulfides by Cyclic Voltammetry	10	L223
ductivity and Electrochemical Stability of Electrolytes Containing Organic Solvent	**Mixtures** with Lithium tris(Trifluoromethanesulfonyl)methide Con	4	L80
ical and X-Ray Photoelectron Spectroscopy Characterization of Surface Films on	**MnNi3.5Al0.8Co0.7** Electrochem	8	2422
Luminescence of	**Mn4+** in the Distorted Perovskite Gd2MgTiO6	9	L203
Intramolecular Energy Transfer and	**Mn4+** Luminescence in Polyoxometallomanganate Lattices	5	1678
Improvements of the Rechargeable Alkaline	**MnO2-Zn** Cell	1	13
Electrochemical Behavior of Thin Anodic Oxide Films on Zircaloy-4. Role of the	**Mobile** Defects	12	3902
Internal Cation	**Mobilities** in the Molten Binary Systems (Y, La)Cl3 and (Y, Dy)Cl3	1	334
The Isotope Effect on the Internal Cation	**Mobility** of Molten Dysprosium Chloride	12	3830
omposites under Potentiostatic Conditions. Experimental Study and Mathematical	**Model** Anomalous Codeposition of Fe-Ni Alloys and Fe-Ni-SiO2 C	7	2184
inetics of Silicon Dioxide in Aqueous Fluoride Solutions. A Surface Complexation	**Model** Etching K	4	1339
Molecular Dynamics Studies of Lithium Injection in	**Model** Cathode/Electrolyte Systems	7	2211
Induced Codeposition. II. A Mathematical	**Modal** Describing the Electrodeposition of Ni-Mo Alloys	3	893
Structural	**Model** Effects on the Predictions of Chemical Vapor Infiltration Models	6	1962
High Aspect Ratio Microtunnel Technique to Empirically	**Model** Electroless Deposition	4	L78
A	**Model** for the Incorporation of Electrolyte Species into Anodic Alumina	1	74
Site-Saturation	**Model** for the Optical Efficiency of Tungsten Oxide-Based Devices	9	L186
A	**Model** for Nanolaminated Growth Patterns in Zn and Zn-Co Electrodeposits	5	1677
A Three-Phase Homogeneous	**Model** for Porous Electrodes in Molten-Carbonate Fuel Cells	5	1617
A Predictive Kinetic	**Model** for the Chemical Vapor Deposition of TiSi2	5	1726
A ss	**Model** for the Gas-Phase Chemistry Occurring in a Furnace N2O Oxynitride Proce	5	1753
A Reduced-Fluid Dynamic Discharge	**Model** for Applications in Technology-Oriented Computer-Aided Design	6	1940
A	**Model** for Galvanostatic Deposition of Nickel Hydroxide	7	2319
An Electrical	**Model** for the Cathodically Charged Aluminum Electrode	9	2827
A Monte Carlo Binary Collision	**Model** for BF2 Implants into (100) Single-Crystal Silicon	11	3784
A Mathematical	**Model** for a Thick Porous Metal-Hydride Electrode in Discharge	12	3972
Predictions from the Macrohomogeneous	**Model** of an Aerospace Ni-Cd Battery	3	803
A Multiphase Mathematical	**Model** of a Nickel/Hydrogen Cell	10	3223
A	**Model** of Low-Temperature Wafer Bonding and Its Applications	5	1773
Multiple Source Quantum Well	**Model** of Porous Silicon Light Emission	4	1394
A Dislocation Formation	**Model** of Trench-Induced Dislocations in Dynamic Random Access Memories	1	210
Thermal	**Model** Validation for Rapid Thermal Chemical Vapor Deposition of Polysilicon	1	374
S Oxide Using Anhydrous HF and CH3OH	**Modeling** and Characterization of Gas-Phase Etching of Thermal Oxide and TEO	3	1099
	Modeling and Analysis of a New Multiwafer Hot Wall Phosphorus Doping Reactor	4	1382
	Modeling Lithium Intercalation of Single-Fiber Carbon Microelectrodes	2	600
ctrode Mathematical	**Modeling** of Electroless Nickel Deposition at Steady State Using Rotating Disk Ele	2	505
	Modeling of Heat Transport and Wafer Heating Effects during Plasma Etching	11	3674
Mesoscopic Scale	**Modeling** of Microloading during Low Pressure Chemical Vapor Deposition	9	2634
	Modeling of Plated Through-Hole Processes. I. Current Distribution	10	3139
ent Distribution	**Modeling** of Plated Through-Hole Processes. II. Effect of Leveling Agents on Curr	10	3144
	Modeling of the Wear Mechanism during Chemical-Mechanical Polishing	2	716
Thermodynamic Heat Transfer and Mass Transport	**Modeling** of the Sublimation Growth of Silicon Carbide Crystals	11	3727
Kinetics and	**Modeling** of Wet Etching of Aluminum Oxide by Warm Phosphoric Acid	2	619
Comparison of	**Modeling** Predictions with Experimental Data from Plastic Lithium-Ion Cells	6	1890
A Reverse Monte Carlo	**Modeling** Study of Diamond-Like Carbon	1	292
ovariance Surfaces Improved Within-Wafer Uniformity	**Modeling** Through the Use of Maximum-Likelihood Estimation of the Mean and C	10	3404
Structural Model Effects on the Predictions of Chemical Vapor Infiltration	**Models**	6	1962
Application of Measurement	**Models** to Electrohydrodynamic Impedance Spectroscopy	3	948
Interpretation of the Rationale for Feed	**Modification** in SCWO Systems	3	L59
oluminescence Surface	**Modification** of Porous Silicon by Aluminum Isopropoxide and Its Impact on Electr	4	1390
onding Applications	**Modification** of Silicon Surfaces with H2SO4:H2O2:HF and HNO3:HF for Wafer B	5	1709
Oxidation of Thiols to Disulfides at Polymeric Cobalt Phthalocyanine Chemically	**Modified** Electrodes Selective	4	1283

		Issue	Page
Flow-Induced Composition	**Modulated NiFe Thin Films with Nanometer-Scale Wavelengths**	3	873
ctrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. II. Intensity	**Modulated Photocurrent Spectroscopy** Ele	8	2538
	Modulation Spectroscopy of Subbandgap Light in Reduced TiO2 Electrodes	11	3800
Scale Integrated Circuit Applications	**Moisture Resistance in Annealed Borophosphosilicate Glass Films for Very Large**	9	3032
tems	**Molecular Dynamics Studies of Lithium Injection in Model Cathode/Electrolyte Sys**	7	2211
The Reaction of Clean Li Surfaces with Small	**Molecules in Ultrahigh Vacuum. I. Dioxygen**	2	422
Study of Spike Peaks Observed under Pressurized Oxidant Gas Atmospheres in	**Molten Alkali Carbonates** A Kinetic	7	2315
Internal Cation Mobilities in the	**Molten Binary Systems (Y, La)Cl3 and (Y, Dy)Cl3**	1	334
Corrosion Behavior of Nickel-Iron Alloys in	**Molten Carbonate**	1	58
Corrosion Behavior of Chromium in	**Molten Carbonate**	1	66
Mechanisms for Oxidation and Passive Behavior of Nickel in	**Molten Carbonate**	7	2272
d Electrolyte Displacement Meniscus Behavior of Metals and Oxides in	**Molten Carbonate under Oxidant and Reducing Atmospheres. I. Contact Angle an**	8	2442
The Isotope Effect on the Internal Cation Mobility of	**Molten Dysprosium Chloride**	12	3830
Studies of Niobium Electrocrystallization Phenomena in	**Molten Fluorides**	5	1570
Deformation Mechanism of Porous Nickel Oxide in	**Molten Li/K Carbonates**	8	2481
Crystal Growth of gamma-Lithium Aluminate in	**Molten Li/K Carbonates**	9	2776
Lithiation of Alumina in	**Molten Li/K Carbonates**	11	3486
Thermodynamic Properties of U, Np, Pu, and Am in	**Molten LiCl-KCl Eutectic and Liquid Cadmium**	8	2487
he Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature	**Molten Salt Electrodeposition of Nickel-Aluminum Alloys from t**	1	130
stigations of Lithium and Sodium Film Formation in Buffered Room Temperature	**Molten Salts In Situ Optical Microscopy Inve**	7	L145
he Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature	**Molten Salt Electrochemical and Spectroscopic Studies of Ytterbium in t**	1	170
Structure, 1H NMR Spectra, Thermodynamics, and Transport Properties of	**Molten Salt Solutions. I. 4-Methylpyridinium Chloride and 4-Methylpyridinium Iodid**	1	183
Voltammetry and Conductivity of a Polyether-Pyridinium Room Temperature	**Molten Salt Electrolyte and of Its Polymer Electrolyte Solutions in Polydimethylsilo**	2	401
f Lithium and Sodium on Inert Electrodes in Room Temperature Chloroaluminate	**Molten Salts Electrodeposition and Stripping o**	3	908
e in Aluminum Chloride-1-Methyl-3-ethylimidazolium Chloride Room Temperature	**Molten Salts Spectroscopic and Electrochemical Studies of Europium(III) C**	3	914
odeposition of Cobalt-Aluminum Alloys from Room Temperature Chloroaluminate	**Molten Salt Electr**	9	2747
The Performance and Stability of Ambient Temperature	**Molten Salts for Solar Cell Applications**	10	3099
f Cobalt and Cobalt-Aluminum Alloys from a Room Temperature Chloroaluminate	**Molten Salt Electrodeposition o**	11	3448
olid Electrolyte Based Galvanic Cell for Measuring the Antimony Concentration in	**Molten Zinc** S	8	2498
A Three-Phase Homogeneous Model for Porous Electrodes in	**Molten-Carbonate Fuel Cells**	5	1617
Behavior of Dissolved	**Molybdenum during Localized Corrosion of Austenitic Stainless Steel**	12	L277
Optomechanical Studies of Lithium Intercalation in Amorphous	**Molybdenum Thin Films**	9	2822
ures of Nonaqueous and Aqueous Electrolytes Electrochromic Behavior of	**Molybdenum Trioxide Thin Films, Prepared by Thermal Oxidation of Electrodepos**	10	3109
bdenum Trioxide Thin Films, Prepared by Thermal Oxidation of Electrodeposited	**Molybdenum Trisulfide, in Mixtures of Nonaqueous and Aqueous Electrolytes**	10	3109
Electronic Structure of Passive Films Formed on	**Molybdenum-Containing Ferritic Stainless Steels**	10	3088
rystal Microbalance Probe Developed for Outdoor In Situ Atmospheric Corrosivity	**Monitoring** A Quartz C	3	839
Local	**Monitoring of Diamond Nucleation Density**	3	1061
In Situ	**Monitoring of Grouted Electrolytes**	4	1214
Plasma Etching Endpointing by	**Monitoring Radio-Frequency Power Systems with an Artificial Neural Network**	6	2029
Control of Selective Tungsten Chemical Vapor Deposition by	**Monolayer Nitridation of Silicon Surface**	2	L38
Electrodeposited Silver Arrays Fabricated Utilizing Self-Assembled Alkanethiolate	**Monolayer Photoresist**	10	3117
Dissociative Mechanisms of	**Monosilane and Arsine on Copper(II) Oxide**	8	2654
ology of Carbon Nanoclusters Prepared by Catalytic Disproportionation of Carbon	**Monoxide** Morph	3	932
Capacitive Gas Sensor of Mixed Oxide CoO-In2O3 to Selectively Detect Nitrogen	**Monoxide**	6	1908
A Reverse	**Monte Carlo Modeling Study of Diamond-Like Carbon**	1	292
Fuel Cells	**Monte Carlo Simulations of Conductivity of Composite Electrodes for Solid Oxide**	3	1123
l Cells for Electrodes	**Monte Carlo Simulations of Polarization Resistance of Composite Solid Oxide Fue**	6	1930
on A	**Monte Carlo Binary Collision Model for BF2 Implants into (100) Single-Crystal Silic**	11	3784
Synthesis of Amorphous	**MoO2+delta and Its Electrode Performance in Lithium Batteries**	7	L143
Copper Deposition on HF Etched Silicon Surfaces:	**Morphological and Kinetic Studies**	1	92
High Temperature Local Oxidation of Silicon Field Isolation	**Morphological Characterization**	11	L259
Nanocrystalline TiO2 (Anatase) Electrodes: Surface	**Morphology, Adsorption, and Electrochemical Properties**	2	394
ous by Anodic Etching	**Morphology and Strongly Enhanced Photoresponse of GaP Electrodes Made Por**	1	305
Effects of Postdeposition Heat-Treatment on	**Morphology and Microstructure of CdTe Grown by Electrodeposition**	2	617
Air and Water	**Morphology and Structure of Oxide Films Formed on MgAl Alloys by Exposure to**	8	2564
Coatings and Porous Sintered-Nickel Cathodes	**Morphology and Utilization of Smooth Hydrogen-Evolving Raney Nickel Cathode**	9	2852
smas Profile and	**Morphology Control during Etching of SiC Using Electron Cyclotron Resonant Pla**	8	2620
Striated	**Morphology during Electrodeposition**	3	865
ditive	**Morphology Evolution of Zinc-Iron Binary Alloys Electrodeposited with Copper Ad**	4	L75
Potential-Induced Changes in the Surface	**Morphology of (100) n-InP Samples Photoelectrochemically Etched**	9	2815
Carbon Monoxide	**Morphology of Carbon Nanoclusters Prepared by Catalytic Disproportionation of**	3	932
Surface	**Morphology of p-Type (100) Silicon Etched in Aqueous Alkaline Solution**	5	1744
Positive Stress Bias Conduction and Charge-Trapping Characteristics of	**MOS Capacitors with Oxidized Nitride Films of Different Nitride Thicknesses under**	1	388
Reliability Evaluation of Manufacturing Processes for Bipolar and	**MOS Devices on Silicon-on-Diamond Materials**	4	1326
Identification of	**MOS Gate Dielectric Breakdown Spot Using High Selectivity C1 Radical Etching T**	8	2691
A 0.25 um	**MOSFET Technology Using In Situ Rapid Thermal Gate Dielectrics**	2	744
uted Nickel Hydroxide Electrode In Situ 57Fe	**Mossbauer Spectroscopy Study of the Electrochemical Behavior of an Iron-Substit**	10	3083
Application of Neutron Radiography to Visualize the	**Motion of Lithium Ions in Lithium Ion Conducting Materials**	6	1866
lution for Charge Transport and Chemical-Potential Variation in Single-Layer and	**Multilayer Devices of Different Mixed-Conducting Oxides** Analytic So	10	3214
The Effect of	**Multilayer Patterns on Temperature Uniformity during Rapid Thermal Processing**	3	1142
Electrodeposition of Cu/Fe20Ni80 Magnetic	**Multilayers**	5	L98
rinated Silicon Oxide Films Using Fluorotriethoxysilane for Interlayer Dielectrics in	**Multilevel Interconnections** Properties of Fluo	3	1084
A	**Multiphase Mathematical Model of a Nickel/Hydrogen Cell**	10	3223
ugh an Iron Membrane The Effects of	**Multiple Electroplated Zinc Layers on the Inhibition of Hydrogen Permeation Thro**	6	1871
	Multiple Source Quantum Well Model of Porous Silicon Light Emission	4	1394
Modeling and Analysis of a New	**Multiwafer Hot Wall Phosphorus Doping Reactor**	4	1362

— N —

is(Trifluoromethanesulfonyl) Methide in Water, Acetonitrile, Propylene Carbonate,	**N,N-Dimethylformamide**, and Nitromethane at 25 C Conductance of Soluti	1	154
Thermally Stimulated Deep-Level Impedance Spectroscopy. Application to an	**n-GaAs Schottky Diode**	12	4086
Optically Stimulated Deep-Level Impedance Spectroscopy. Application to an	**n-GaAs Schottky Diode**	12	4074
Ohmic Contacts Formed on	**n-GaSb by Electrochemical Deposition**	3	1014
Oxidation of	**n-InP and Indium in the Negative Potential Region at pH 5**	2	524
Electrochemically Fabricated High-Barrier Schottky Contacts on	**n-InP and Their Application for Metal-Semiconductor-Metal Photodetectors**	6	1945
Potential-Induced Changes in the Surface Morphology of (100)	**n-InP Samples Photoelectrochemically Etched**	9	2815
Atomic-Scale Elucidation of the Anisotropic Etching of (110)	**n-Si in Aqueous NH4F: Studies by In Situ Scanning Tunneling Microscopy**	12	4012
nation Impedance Electrical Properties of	**n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. I. Interface States and Recombi**	8	2531
ent Spectroscopy Electrical Properties of	**n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. II. Intensity Modulated Photocurr**	8	2538
CdSe:In2O3 Coatings with	**n-Type Conductivity Produced by Air Annealing of CdSe-In Thin Films**	9	2892
Oxide Growth Enhancement on Highly	**n-Type Doped Silicon under Steam Oxidation**	4	1434
Effects of Small Amounts of Silver Added to NiGe Ohmic Contacts to	**n-Type GaAs**	5	1705
Processing of Three-Dimensional Microstructures Using Macroporous	**n-Type Silicon**	1	385
p- and	**n-Type Silicon Electrochemical Properties in Dilute Hydrofluoric Acid Solutions**	11	3532
Reactive Ion Etching of 6H-SiC in SF6/O2 and CF4/O2 with	**N2 Additive for Device Fabrication**	3	1037
Reactive Ion Etching of Copper Films in an SiCl4,	**N2, Cl2, and NH3 Mixture**	12	4089
and 18O18O Tracers to Study the Removal of Parts per Million CO and O2 from	**N2 over a Ni-Al2O3 Catalyst** Using 13CO	8	2429
Thermal Oxynitridation of Silicon in	**N2O Ambients**	10	3372
A Study of Nitrogen Incorporation during the Oxidation of Si(100) in	**N2O at High Temperatures**	1	221
A Model for the Gas-Phase Chemistry Occurring in a Furnace	**N2O Oxynitride Process**	5	1783
Stabilizing Dielectric Constants of Fluorine-Doped SiO2 Films by	**N2O-Plasma Annealing**	1	381
structural Effects on Conduction Properties of Na5YSi4O12-Type Glass-Ceramic	**Na+-Fast Ionic Conductors** Micro	7	2180

		Issue	Page
tation	Characterization of **Na+-Sensitive** Electrolyte/Oxide/Semiconductor Structures Obtained by Ion Implan	4	1422
	Thermodynamic Stability and Electronic Conductivity of **Na-beta-Alumina**	3	943
	Microstructural Effects on Conduction Properties of **Na5YSi4O12-Type** Glass-Ceramic Na+-Fast Ionic Conductors	7	2180
	Capacitive Deionization of **NaCl** and NaNO3 Solutions with Carbon Aerogel Electrodes	1	159
on and Hydration. Quantitative Interpretation of the Thermodynamic Properties of	**NaCl(aq)** from "Zero to Saturation" Physical Electrochemistry of Strong Ele	6	1789
	Proton Conductivity of **Nafion** 117 as Measured by a Four-Electrode AC Impedance Method	4	1254
	Effect of **Nafion** Dispersion on the Stability of PtWO3 Electrodes	9	2703
	Thermal Stability of **Nafion** in Simulated Fuel Cell Environments	5	1498
s	**Nano-Trenched** Local Oxidation of Silicon Isolation Using Island Polysilicon Grain	2	639
	Sodium Ion Conductor Based Sensor Attached with **NaNO2** for Amperometric Detection of NO2	10	L241
	Capacitive Deionization of NaCl and **NaNO3** Solutions with Carbon Aerogel Electrodes	1	159
	Chemical Sensitivity of the Thickness-Shear-Mode Quartz-Resonator **Nanobalance**	9	2836
	Improved Graphite Anode for Lithium Ion Batteries Chemically Bonded SEI and **Nanochannel** Formation	1	L4
	Morphology of Carbon **Nanoclusters** Prepared by Catalytic Disproportionation of Carbon Monoxide	3	932
	Electrochemical Lithium Intercalation into a Polyaniline/V2O5 **Nanocomposite**	9	L181
Electrochemical Properties	**Nanocrystalline** TiO2 (Anatase) Electrodes: Surface Morphology, Adsorption, and	2	394
	Cathodic Electrodeposition of **Nanocrystalline** Titanium Dioxide Thin Films	5	1547
pecies in the Electrolyte	Photocurrent Losses in **Nanocrystalline/Nanoporous** TiO2 Electrodes Due to Electrochemically Active S	10	3173
	A Model for **Nanolaminated** Growth Patterns in Zn and Zn-Co Electrodeposits	5	1577
	Flow-Induced Composition Modulated NiFe Thin Films with **Nanometer-Scale** Wavelengths	3	873
	Fabrication and Characterization of **Nanostructured** Gold Electrodes for Electrochemical Biosensors	12	3890
	Electron Cyclotron Resonance Plasma Etching of **Native** TiO2 on TiN	1	264
	Structure and Lithium Intercalation Properties of Synthetic and **Natural** Graphite	11	3488
rations	**Natural** Organics and Environmental Stability of Mercury. Electrochemical Conside	6	L123
Aluminum	The Effect of Various **Naturally** Occurring Metal-Binding Compounds on the Electrochemical Behavior of	1	114
	Lithium Insertion Processes of Orthorhombic **NaxMnO2-Based** Electrode Materials	8	2507
	Luminescence of Cs2NbOF5: Vibrational Structure in **[NbOF5]2-** Luminescence	10	L234
ludies of the Formation of Cerium-Rich Protective Films Using X-Ray Absorption	**Near-Edge** Spectroscopy and Rotating-Disk-Electrode Methods S	1	147
Passive Films	In Situ X-Ray Absorption **Near-Edge** Spectroscopic Study of the Cathodic Reduction of Artificial Iron Oxide	2	574
Al-Fe-Ce Alloys	An X-Ray Absorption **Near-Edge** Spectroscopic Study of the Structure of Passive Films on Amorphous	2	614
sive Dissolution of Cr and Sputter-Deposited Cr Oxides Studied by In Situ X-Ray	**Near-Edge** Spectroscopy Transpas	12	3997
	In Situ X-Ray Absorption **Near-Edge** Structure Evidence for Quadrivalent Nickel in Nickel Battery Electrodes	5	1613
anical Polishing	**Near-Global** Planarization of Oxide-Filled Shallow Trenches Using Chemical Mech	11	3718
se Time of Photostimulated Luminescence of BaFX:Eu2+ and BaFCl:Pr3+ under	**Near-Infrared** Light Stimulation Respon	7	2346
	Oxidation of n-InP and Indium in the **Negative** Potential Region at pH 5	2	524
dpointing by Monitoring Radio-Frequency Power Systems with an Artificial Neural	**Network** Plasma Etching En	6	2029
ing Endpointing by Monitoring Radio-Frequency Power Systems with an Artificial	**Neural Network** Plasma Etch	6	2029
	The Anodic Behavior of Azide Ions at Carbon Electrodes in **Neutral** Electrolyte	2	556
	The Anodic Behavior of Azide Ions on Gold and Platinum Electrodes in **Neutral** Electrolyte	6	1827
	Etching Profiles and **Neutral** Shadowing in Long Trenches	2	672
trochemical Quartz Crystal Microgravimetry Study of Zinc Electrode Behavior in a	**Neutral** Solution by Laser Illumination Elec	6	1525
	Electric Field Dependence of the Electron Capture Cross Section of **Neutral** Traps in SiO2	5	2587
	Low-Background Instrumental **Neutron** Activation Analysis of Silicon Semiconductor Materials	1	339
cting Materials	Application of **Neutron** Radiography to Visualize the Motion of Lithium Ions in Lithium Ion Condu	6	1886
	Etching of 6H-SiC and 4H-SiC Using **NF3** in a Reactive Ion Etching System	5	1750
	Reactive Ion Etching of Copper Films in an SiCl4, N2, Cl2, and **NH3** Mixture	12	4089
	Atomic-Scale Elucidation of the Anisotropic Etching of (110) n-Si in Aqueous **NH4F**: Studies by In Situ Scanning Tunneling Microscopy	12	4012
	Oxidation and Steam Reforming of CH4 on **Ni** and Fe Anodes under Low Humidity Conditions in Solid Oxide Fuel Cells	4	1161
	The Spinel Phases LiMyMn2-yO4 (M = Co, Cr, **Ni**) as the Cathode for Rechargeable Lithium Batteries	1	178
	Electrochemical Oxidation Processes on **Ni** Electrodes in Propylene Carbonate Containing Various Electrolyte Salts	8	2548
perties for Oxygen Evolution	Effects of **Ni**, Fe, Cu, and Cr Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic Pro	5	1505
80 Tracers to Study the Removal of Parts per Million CO and O2 from N2 over a	**Ni-Al2O3** Catalyst Using 13CO and 18O1	8	2429
	Predictions from the Macrohomogeneous Model of an Aerospace **Ni-Cd** Battery	3	803
	Testing the Role of Metal Hydrolysis in the Anomalous Electrodeposition of **Ni-Fe** Alloys	12	3918
	Induced Codeposition. I. An Experimental Investigation of **Ni-Mo** Alloys	3	885
uced Codeposition. II. A Mathematical Model Describing the Electrodeposition of	**Ni-Mo** Alloys Ind	3	893
Solution	Characterization of the Electroless **Ni-Mo-P/SnO2/Ti** Electrodes with Heat-Treatment for Oxygen Evolution in Alkaline	7	2158
	Characterization of **Ni-YSZ** Anode Degradation for Substrate-Type Solid Oxide Fuel Cells	5	1521
	Steady-Stage Growth of NiO Scales on Ceria-Coated Polycrystalline **Nickel**	9	3000
	Current Distribution and Current Efficiency in Pulsed Current Plating of **Nickel**	9	2770
	the Composition of Polypyrrole Substrate on the Electrodeposition of Copper and **Nickel** Effect of	2	498
n Situ X-Ray Absorption Near-Edge Structure Evidence for Quadrivalent Nickel in	**Nickel Battery Electrodes** I	5	1613
	Morphology and Utilization of Smooth Hydrogen-Evolving Raney **Nickel** Cathode Coatings and Porous Sintered-Nickel Cathodes	9	2852
	Mathematical Modeling of Electroless **Nickel** Deposition at Steady State Using Rotating Disk Electrode	2	505
	Selective Electroless **Nickel** Deposition on Patterned Phosphonate and Carboxylate Polymer Films	2	691
	In Situ Quartz Crystal Microbalance Studies of **Nickel** Hydrous Oxide Films in Alkaline Electrolytes	1	37
	Electrochemical Behavior of the Manganese-Substituted **Nickel** Hydroxides	2	561
	A Model for Galvanostatic Deposition of **Nickel** Hydroxide	7	2319
bauer Spectroscopy Study of the Electrochemical Behavior of an Iron-Substituted	**Nickel** Hydroxide Electrode In Situ 57Fe Moss	10	3083
	Mechanisms for Oxidation and Passive Behavior of **Nickel** in Molten Carbonate	7	2272
	In Situ X-Ray Absorption Near-Edge Structure Evidence for Quadrivalent **Nickel** in Nickel Battery Electrodes	5	1613
	Porous **Nickel** Oxide/Nickel Films for Electrochemical Capacitors	1	124
	Deformation Mechanism of Porous **Nickel** Oxide in Molten Li/K Carbonates	9	3481
m Chloride Room Temperature Molten Salt	Electrodeposition of **Nickel-Aluminum** Alloys from the Aluminum Chloride - 1-Methyl-3-ethylimidazoliu	1	139
	Possible Cause of the Memory Effect Observed in **Nickel-Cadmium** Secondary Batteries	10	L225
	Corrosion Behavior of **Nickel-Iron** Alloys in Molten Carbonate	1	58
	Electrochemical Determination of Solid-State Interdiffusion in **Nickel-Platinum** Alloys	11	3862
	A Multiphase Mathematical Model of a **Nickel/Hydrogen** Cell	10	3223
emical Properties of Ti0.35Zr0.65NixV2-x-yMny Alloys with C14 Laves Phase for	**Nickel/Metal** Hydride Batteries Studies of Electroch	2	429
	Self-Discharge Mechanism of Sealed-Type **Nickel/Metal-Hydride** Battery	6	1904
	Voltammetric Response of **Nicotinamide** Coenzyme I at a Silver Electrode	7	L141
	Interface with Substrates of High-Phosphorus Electroless NiP and **NiCuP** Deposited from Nonammonia Alkaline Solutions	9	2804
	Flow-Induced Composition Modulated **NiFe** Thin Films with Nanometer-Scale Wavelengths	3	873
	Effects of Small Amounts of Silver Added to **NiGe** Ohmic Contacts to n-Type GaAs	5	1705
	Steady-Stage Growth of **NiO** Scales on Ceria-Coated Polycrystalline Nickel	9	3000
	Studies of **Niobium** Electrocrystallization Phenomena in Molten Fluorides	5	1570
	The Redox Chemistry of **Niobium(V)** Fluoro and Oxofluoro Complexes in LiF-NaF-KF Melts	6	1793
	Interface with Substrates of High-Phosphorus Electroless **NiP** and NiCuP Deposited from Nonammonia Alkaline Solutions	9	2804
lectrochemical Reductions of Hg(II), Ruthenium-Nitrosyl Complex, Chromate, and	**Nitrate** in a Strong Alkaline Solution E	12	3801
	Use of a Hydrogen Anode for **Nitrate** Waste Destruction	10	3094
	Photoelectrochemical Etching of p-InP in **Nitric** Acid Solutions	9	L200
	Control of Selective Tungsten Chemical Vapor Deposition by Monolayer **Nitridation** of Silicon Surface	2	L38
	Thermal **Nitridation** of SiO2 Films in Ammonia: The Role of Hydrogen	4	1426
the Initial Stages	Thermal **Nitridation** of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in	9	2938
Further Stages and in Reoxidation	Thermal **Nitridation** of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in	9	2946
	Titanium **Nitridation** on Copper Surfaces	7	2349
	Nitridation-Retarded Diffusion of Phosphorus in <100> Silicon	1	362
onduction and Charge-Trapping Characteristics of MOS Capacitors with Oxidized	**Nitride** Films of Different Nitride Thicknesses under Positive Stress Bias C	1	368
em and In Situ H2 Cleaning	Ultrathin Silicon **Nitride** Films Fabricated by Single-Wafer Processing Using SiH2Cl2-NH3-H2 Syst	4	1459
	Atmospheric Pressure Chemical Vapor Deposition of Titanium **Nitride** from tetrakis(Diethylamido) Titanium and Ammonia	2	736
fact of Electrochemical Polarization on Optical Properties of Sputter-Prepared Tin	**Nitride** in Aqueous Electrolyte Ef	1	326
	High-Density Etching of Group III **Nitride** Ternary Films	10	3285

		Issue	Page
apping Characteristics of MOS Capacitors with Oxidized Nitride Films of Different	**Nitride** Thicknesses under Positive Stress Bias Conduction and Charge-Tr	1	368
Creation and Properties of Nitrogen Dangling Bond Defects in Silicon	**Nitride** Thin Films	11	3685
or Deposition with Nitrous Oxide and Silane Formation of High-Quality	**Nitrided** Silicon Dioxide Films Using Electron-Cyclotron Resonance Chemical Vap	5	1681
Selective Dry Etching of III-V	**Nitrides** in Cl2/Ar, CH4/H2/Ar, ICl/Ar, and IBr/Ar	10	L246
Thermal Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of	**Nitrogen** and Oxygen in the Initial Stages	9	2938
Thermal Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of	**Nitrogen** and Oxygen in Further Stages and in Reoxidation	9	2946
Creation and Properties of	**Nitrogen** Dangling Bond Defects in Silicon Nitride Thin Films	11	3685
The Synergistic Effect of Hydrogen Sulfide and	**Nitrogen** Dioxide on the Atmospheric Corrosion of Zinc	1	51
es A Study of	**Nitrogen** Incorporation during the Oxidation of Si(100) in N2O at High Temperatur	1	221
Etch-Stop Behavior of Buried Layers Formed by Substoichiometric	**Nitrogen** Ion Implantation into Silicon	3	1026
Capacitive Gas Sensor of Mixed Oxide CoO-In2O3 to Selectively Detect	**Nitrogen** Monoxide	6	1908
A WSixN Diffusion Barrier Formed with Electron Cyclotron Resonance	**Nitrogen** Plasma	11	3747
Direct Methanol Fuel Cell Cathodes with Sulfur and	**Nitrogen-Based** Carbon Functionality	10	3073
ethide in Water, Acetonitrile, Propylene Carbonate, N,N-Dimethylformamide, and	**Nitromethane** at 25 C Conductance of Solutions of Lithium tris(Trifluorome	1	154
oxide Films Using Electron-Cyclotron Resonance Chemical Vapor Deposition with	**Nitrous** Oxide and Silane Formation of High-Quality Nitrided Silicon Di	5	1681
. 4-Methylpyridinium Chloride and 4-Methylpyridinium Iodide Structure, 1H	**NMR** Spectra, Thermodynamics, and Transport Properties of Molten Salt Solutions	1	183
on Conductor Based Sensor Attached with NaNO2 for Amperometric Detection of	**NO2** Sodium I	10	L241
Anomalous Oxidation Reactions at	**Noble** Metal Surfaces at Low Potentials: With Particular Reference to Palladium	3	845
Analysis of Electrochemical	**Noise** Data for Polymer Coated Steel in the Time and Frequency Domains	12	L296
rimental Study of Iron Corrosion in Sulfuric Acid Solution Containing Inhibitors by	**Noise Measurement** An Expe	11	3897
e with Substrates of High-Phosphorus Electroless NiP and NiCuP Deposited from	**Nonammonia** Alkaline Solutions Interfac	9	2804
by Thermal Oxidation of Electrodeposited Molybdenum Trisulfide, in Mixtures of	**Nonaqueous** and Aqueous Electrolytes Electrochromic Behavior of Molybd	10	3109
Electrochemical Deposition of Very Smooth Lithium Using	**Nonaqueous** Electrolytes Containing HF	7	2187
tudies of Their Effect on Ion Pair Dissociation and Conductivity of Lithium Salts in	**Nonaqueous** Solutions The Synthesis of a New Family of Anion Receptors	12	3825
The Overpotential as a Surface Singularity Described by	**Nonequilibrium** Thermodynamics	3	779
sis Cells Application of	**Nonequilibrium** Thermodynamics to the Electrode Surfaces of Aluminum Electroly	11	3440
Voltammetry of a TCNQ(O/-1) Solid-State Redox Couple. Role of Nucleation and	**Nonideality** for a Square Scheme Surface Redox Reaction Cyclic	10	3039
Effect of Temperature on the Interaction of Silicon with	**Nonionic** Surfactants in Alkaline Solutions	1	277
Differential Measurement of	**Nonlinear** Electrical Relaxation of Lithium Batteries	10	3148
	Nonlinear Iron Electrochemical Oscillator: Coupling and Photo Effects	7	2258
	Nonparticulate Origins of Light Point Defects on Polished Silicon Wafers	6	2068
or	**Nonphotosensitive**, Vertically Redundant Two-Channel a-Si:H Thin Film Transist	4	1489
perties in Alkaline Solutions	**Nonstoichiometry** of Sintered Oxide Ca0.9La0.1MnO3-delta and Its Cathodic Pro	2	567
mical Cleaning	**Nonuniformities** in Chemical Oxides on Silicon Surfaces Formed during Wet Che	7	2280
Mixed Potential Type	**NOx** Sensor Based on Stabilized Zirconia and Oxide Electrode	2	L33
Thermodynamic Properties of U,	**Np**, Pu, and Am in Molten LiCl-KCl Eutectic and Liquid Cadmium	8	2487
Determination of Lithium Ion Transference Numbers by Electrophoretic	**Nuclear** Magnetic Resonance	6	L107
Vapor Deposition of Very Smooth Silicon at High Deposition Rates Silicon	**Nucleation** and Film Evolution on Silicon Dioxide Using Disilane. Rapid Thermal	2	649
Cyclic Voltammetry of a TCNQ(O/-1) Solid-State Redox Couple. Role of	**Nucleation** and Nonideality for a Square Scheme Surface Redox Reaction	10	3039
Local Monitoring of Diamond	**Nucleation** Density	3	1061
Vapor Deposition. I. Transient Nucleation Stage	**Nucleation** Kinetics of Diamond on Carbide-Forming Substrates during Chemical	3	1104
d on Carbide-Forming Substrates during Chemical Vapor Deposition. I. Transient	**Nucleation** Stage Nucleation Kinetics of Diamon	3	1104
ochemical Method for Measuring Salt Diffusion Coefficients and Ion Transference	**Numbers** A Novel Electr	2	L44
Determination of Lithium Ion Transference	**Numbers** by Electrophoretic Nuclear Magnetic Resonance	6	L107
ow Pressure SiH4:O2:He Chemical Vapor Deposition Reactor. Experimental and	**Numerical** Results Particle Size Distribution in a L	10	3397

— O —

Investigation of Polyimide Residue Due to Reactive Ion Etching in	**O2**	4	1484
ng 13CO and 18O18O Tracers to Study the Removal of Parts per Million CO and	**O2** from N2 over a Ni-Al2O3 Catalyst Usi	8	2429
Iron(II) Catalysis of the Mineralization of Aniline Using a Carbon-PTFE	**O2**-Fed Cathode	3	L49
Possible Cause of the Memory Effect	**Observed** in Nickel-Cadmium Secondary Batteries	10	L225
es A Kinetic Study of Spike Peaks	**Observed** under Pressurized Oxidant Gas Atmospheres in Molten Alkali Carbonat	7	2315
Improved Selenization Procedure to	**Obtain** CuInSe2 Thin Films from Sequentially Electrodeposited Precursors	2	493
A Model for the Gas-Phase Chemistry	**Occurring** in a Furnace N2O Oxynitride Process	5	1753
m The Effect of Various Naturally	**Occurring** Metal-Binding Compounds on the Electrochemical Behavior of Aluminu	1	114
	Ohmic Contacts Formed on n-GaSb by Electrochemical Deposition	3	1014
Effects of Small Amounts of Silver Added to NiGe	**Ohmic** Contacts to n-Type GaAs	5	1705
The Use of a Double Mask System to Prevent Ti Diffusion from a Ti/Pt/Au	**Ohmic** Contact on Diamond	7	2392
des	**Ohmic** Resistance of the Electrode-Electrolyte Interface in Au/YSZ Oxygen Electro	4	L92
olid Oxide Fuel Cell Cathodes and Current Collectors. Cathodic Polarization and	**Ohmic** Resistance Microstructure-Property Relations of S	2	530
The Error Structure of Impedance Spectra for Systems with a Large	**Ohmic** Resistance with Respect to the Polarization Impedance	12	3880
d, and Alkylated Electrolyte Films Study of the Poly[oxymethylene	**oligo-[oxy-ethylene]]/Lithium** Metal Interface. Comparison of Linear, Cross Linke	4	1292
Poly(p-phenylene terephthalamide) Film Immobilizing	**Oligomer** Species as a Colored Matrix for Three-Color Electrochromic Displays	9	L212
ctrolyte	**Operating** Properties of Solid Oxide Fuel Cells Using BaCe0.8Gd0.2O3-Alpha Ele	6	1886
+ CO2 + H2O) Gas High-Performance Electrode for Medium-Temperature	**Operating** Solid Oxide Fuel Cells. Polarization of Ceria-Based Anode with Highly	5	1700
Methyltrichlorosilane In Situ	**Optical** Analysis of the Gas Phase during the Deposition of Silicon Carbide from	5	1654
Site-Saturation Model for the	**Optical** Efficiency of Tungsten Oxide-Based Devices	9	L186
ing Electrochemical and Photoelectrochemical Microscopy by Use of a Metallized	**Optical** Fiber Simultaneous Scann	12	3853
ed Room Temperature Molten Salts In Situ	**Optical** Microscopy Investigations of Lithium and Sodium Film Formation in Buffer	7	L145
Effect of Electrochemical Polarization on	**Optical** Properties of Sputter-Prepared Tin Nitride in Aqueous Electrolyte	1	328
ations of 0.1 um Size Particles on Si Wafers Using Atomic Force Microscopy and	**Optical** Scattering First Observ	12	4125
c Phenomenon	**Optical** Switching of Y-Hydride Thin Film Electrodes. A Remarkable Electrochromi	10	3348
xygen Plasma Etching of Polyurethane-Based Electro-optic Polymer for Low Loss	**Optical** Waveguide Fabrication Optimized O	11	3648
As Schottky Diode	**Optically** Stimulated Deep-Level Impedance Spectroscopy. Application to an n-Ga	12	4074
Electrolyte	**Optimization** for Cathodic Growth of Zinc Oxide Films	3	L53
Reactor	**Optimization** of Low Damage, High Resolution Etch Process for SiNx in an ECR	1	288
ral, Magnetic, and Electrochemical Studies	**Optimization** of the Composition of the Li1-zNi1+zO2 Electrode Materials: Structu	4	1168
or Low Loss Optical Waveguide Fabrication	**Optimized** Oxygen Plasma Etching of Polyurethane-Based Electro-optic Polymer f	11	3648
Batteries	**Optimizing** Pyrolysis of Sugar Carbons for Use as Anode Materials in Lithium-Ion	10	3046
Films	**Optomechanical** Studies of Lithium Intercalation in Amorphous Molybdenum Thin	9	2822
Fabrication of a Porous Silicon Diode Possessing Distinct Red and	**Orange** Electroluminescent Regions	2	L42
Oxidation Kinetics of Water and	**Organic** Compounds by Silver (II) Using a Potentiometric Method	6	1880
Bismuth(III) and Copper(II) Oxides as Catalysts for the Electro-oxidation of	**Organic** Compounds	11	3435
ontaining Ammonium Chloride Removal of Metal and	**Organic** Contaminants from Silicon Substrates Using Electrolysis-Ionized Water C	5	1632
Identification and Removal of Trace	**Organic** Contamination on Silicon Wafers Stored in Plastic Boxes	10	3279
Electromodulation of Luminescence in	**Organic** Photoconductors	1	315
Electrode Effects of the	**Organic** Solvent on the Electrochemical Lithium Intercalation Behavior of Graphite	2	L26
Conductivity and Electrochemical Stability of Electrolytes Containing	**Organic** Solvent Mixtures with Lithium tris(Trifluoromethanesulfonyl)methide	4	L80
Natural	**Organics** and Environmental Stability of Mercury. Electrochemical Considerations	6	L123
Its for Lithium Battery Electrolytes. III. Synthesis and Properties of Some Lithium	**Organoborates** A New Class of Electrochemically and Thermally Stable Lit	11	3572
lly Stable Lithium Salts for Lithium Battery Electrolytes. II. Conductivity of Lithium	**Organoborates** in Dimethoxyethane and Propylene Carbonate A New Clas	11	3565
Unintentional Doping of Wafers Due to	**Organophosphates** in the Clean Room Ambient	9	2906
Batteries An	**Organosulfur** Polymer Cathode with a High Current Capability for Rechargeable	10	3152
s	**Orientation** Control of Chemical Vapor Deposition TiN Film for Barrier Application	6	2059
On the	**Origin** of Electrochemical Oscillations at Silicon Electrodes	4	1313
Nonparticulate	**Origins** of Light Point Defects on Polished Silicon Wafers	6	2068
Luminescence Characteristics of the Lanthanide Complex Incorporated into an	**ORMOSIL** Matrix Using a Sol-Gel Method	10	3333
Lithium Insertion Processes of	**Orthorhombic** NaxMnO2-Based Electrode Materials	8	2507
On the Origin of Electrochemical	**Oscillations** at Silicon Electrodes	4	1313
Nonlinear Iron Electrochemical	**Oscillator**: Coupling and Photo Effects	7	2258
Low-Temperature	**Out-Diffusion** of Cu from Silicon Wafers	6	2025

		Issue	Page
A Quartz Crystal Microbalance Probe Developed for	**Outdoor** In Situ Atmospheric Corrosivity Monitoring	3	839
Impact of the Electrochemical Properties of Silicon Wafer Surfaces on Copper	**Outplating** from HF Solutions	10	3323
	Overcharge Protection for Rechargeable Lithium Polymer Electrolyte Batteries	12	3992
mics The	**Overpotential** as a Surface Singularity Described by Nonequilibrium Thermodyna	3	779
Power Conversion Efficiency, Electrode Separation, and	**Overpotential** in the Ferricyanide/Ferrocyanide Thermogalvanic Cell	8	2558
Effect of Anodic Concentration	**Overvoltage** on Power Generation Characteristics of Solid Oxide Fuel Cells	11	3699
nt Meniscus Behavior of Metals and Oxides in Molten Carbonate under	**Oxidant** and Reducing Atmospheres. I. Contact Angle and Electrolyte Displaceme	8	2442
A Kinetic Study of Spike Peaks Observed under Pressurized	**Oxidant** Gas Atmospheres in Molten Alkali Carbonates	7	2315
Oxide Growth Enhancement on Highly n-Type Doped Silicon under Steam	**Oxidation**	4	1434
Repair of Plasma Etch Related Gate Perimeter Damage Using Low Temperature	**Oxidation**	2	628
cts in Micron and Submicron Field Regions. A Comparison Between Wet and Dry	**Oxidation** Oxide Growth Effe	9	2953
y Conditions in Solid Oxide Fuel Cells	**Oxidation** and Steam Reforming of CH4 on Ni and Fe Anodes under Low Humidit	4	1161
Mechanisms for	**Oxidation** and Passive Behavior of Nickel in Molten Carbonate	7	2272
dy Formic Acid	**Oxidation** in a Polymer Electrolyte Fuel Cell. A Real-Time Mass-Spectrometry Stu	7	L158
ctroluminescence of Heavily Doped p-Type Porous Silicon under Electrochemical	**Oxidation** in Galvanostatic Regime Ele	3	1053
ometric Method	**Oxidation** Kinetics of Water and Organic Compounds by Silver (II) Using a Potenti	6	1980
l Impedance Spectroscopy Electrochemistry of Conducting Polymers. XIX.	**Oxidation** of Aniline at Bare and Polyaniline-Modified Platinum Electrodes Studied	4	1269
The Composition of the Alloy/Film Interface during Anodic	**Oxidation** of Al-W Alloys	8	2485
Electrocatalysis of Anodic Oxygen-Transfer Reactions:	**Oxidation** of Cr(III) to Cr(VI) at Bi(V)-Doped PbO2-Film Electrodes	7	2119
edium Anodic	**Oxidation** of Ethylenediaminetetraacetic Acid on Platinum Electrode in Alkaline M	5	1636
Electrocatalysis of Anodic Oxygen-Transfer Reactions. Temperature Effects on	**Oxidation** of Ethylamine, Alanine, and Ammonia at Anodized Ag-Pb Eutectic Alloy	8	2543
lectrochromic Behavior of Molybdenum Trioxide Thin Films, Prepared by Thermal	**Oxidation** of Electrodeposited Molybdenum Trisulfide, in Mixtures of Nonaqueous	10	3109
phate Buffer Electrochemical	**Oxidation** of Glucose on Single Crystal and Polycrystalline Gold Surfaces in Phos	3	759
Anodic	**Oxidation** of Methanol Using a New Base Electrocatalyst	7	L130
	Oxidation of n-InP and Indium in the Negative Potential Region at pH 5	2	534
sed Solid Electrolyte Selective	**Oxidation** of Propene Using an Electrochemical Membrane Reactor with CeO2-Ba	4	1254
A Study of Nitrogen Incorporation during the	**Oxidation** of Si(100) in N2O at High Temperatures	1	221
High Temperature Local	**Oxidation** of Silicon Field Isolation Morphological Characterization	11	L259
Nano-Trenched Local	**Oxidation** of Silicon Isolation Using Island Polysilicon Grains	2	639
Impact of Reactive Ion Etching Induced Carbon Contamination on	**Oxidation** of Silicon	7	2378
Modified Electrodes Selective	**Oxidation** of Thiols to Disulfides at Polymeric Cobalt Phthalocyanine Chemically	4	1283
electrochemical Response of TiO2-WO3 Mixed Oxide Films Prepared by Thermal	**Oxidation** of Titanium Coated with Tungsten The Photo	7	2226
ectroscopy	**Oxidation** of Zinc in Alkaline Solutions Studied by Electrochemical Impedance Sp	12	3895
Investigations on High-Temperature Thermal	**Oxidation** Process at Top and Bottom Interfaces of Top Silicon of SIMOX Wafers	1	244
he PbO Layer by Linear Sweep Voltammetry Kinetics of	**Oxidation** Processes on Lead Electrode in H2SO4. III. A Study of the Growth of t	4	1157
Electrolyte Salts Electrochemical	**Oxidation** Processes on Ni Electrodes in Propylene Carbonate Containing Various	8	2548
eference to Palladium Anomalous	**Oxidation** Reactions at Noble Metal Surfaces at Low Potentials: With Particular R	3	845
urface A Study of the	**Oxidation** Slow-Down Mechanism Induced by Carbon Contamination on Silicon S	9	2965
Dissociative Mechanisms of Monosilane and Arsine on Copper(II)	**Oxide**	8	2654
Bevel Etching of Tin-Doped Indium	**Oxide**	2	L40
Rechargeable 3 V Li Cells Using Hydrated Lamellar Manganese	**Oxide**	11	3429
chemical and Surface Spectroscopic Studies of Thin Films of Bismuth Ruthenium	**Oxide** (Bi2Ru2O7) Electro	11	3504
Modeling and Characterization of Gas-Phase Etching of Thermal	**Oxide** and TEOS Oxide Using Anhydrous HF and CH3OH	3	1099
lms Using Electron-Cyclotron Resonance Chemical Vapor Deposition with Nitrous	**Oxide** and Silane Formation of High-Quality Nitrided Silicon Dioxide Fi	5	1681
Electro-optical Charge Trapping in Zinc Porphyrin Films on Indium Tin	**Oxide** and /SiO2/Si	6	1914
Corrosion of Tin	**Oxide** at Anodic Potentials	2	442
Influence of Cooling Condition during Crystal Growth of CZ-Si on	**Oxide** Breakdown Property	10	3383
Kinetics and Modeling of Wet Etching of Aluminum	**Oxide** by Warm Phosphoric Acid	2	619
Nonstoichiometry of Sintered	**Oxide** Ca0.9La0.1MnO3-delta and Its Cathodic Properties in Alkaline Solutions	2	567
Effect of Mechanical Processing Procedures on the Decomposition Rate of Silver	**Oxide** Cathode Material The	2	419
Characterization of Thin-Film Rechargeable Lithium Batteries with Lithium Cobalt	**Oxide** Cathodes	10	3203
A Hydrogen-Nitric	**Oxide** Cell for the Synthesis of Hydroxylamine	11	3491
Capacitive Gas Sensor of Mixed	**Oxide** CoO-In2O3 to Selectively Detect Nitrogen Monoxide	6	1908
Mixed Potential Type NOx Sensor Based on Stabilized Zirconia and	**Oxide** Electrode	2	L33
Mixed Potential Hydrogen Sensor Combining Oxide Ion Conductor with	**Oxide** Electrode	7	L154
Kinetics of the Hydrogen Evolution Reaction on RuO2 and IrO2	**Oxide** Electrodes in H2SO4 Solution: An AC Impedance Study	11	3576
In Situ Quartz Crystal Microbalance Studies of Nickel Hydrous	**Oxide** Films in Alkaline Electrolytes	1	37
Electrolyte Optimization for Cathodic Growth of Zinc	**Oxide** Films	3	L53
Proton Insertion into Ruthenium	**Oxide** Film Prepared by Pulsed Laser Deposition	3	1068
connections Properties of Fluorinated Silicon	**Oxide** Films Using Fluorotriethoxysilane for Interlayer Dielectrics in Multilevel Inter	3	1084
Nature of Charge Traps in Anode	**Oxide** Films on GaAs	3	1109
The Photoelectrochemical Response of TiO2-WO3 Mixed	**Oxide** Films Prepared by Thermal Oxidation of Titanium Coated with Tungsten	7	2226
Characterization of Proton-Induced Color Transition in an Amorphous Tungsten	**Oxide** Film	7	2341
Morphology and Structure of	**Oxide** Films Formed on MgAl Alloys by Exposure to Air and Water	8	2564
Stress in Liquid-Phase Deposited	**Oxide** Films	8	2658
Electrodeposition of Silver(II)	**Oxide** Films	9	2741
Electrochemical Behavior of Thin Anodic	**Oxide** Films on Zircaloy-4. Role of the Mobile Defects	12	3902
Electrochemical Insertion of Lithium Cations Vanadium	**Oxide** Fluoride-Graphite Intercalation Compounds: Structural Characteristics and	7	2093
c Resistance Microstructure-Property Relations of Solid	**Oxide** Fuel Cell Cathodes and Current Collectors. Cathodic Polarization and Ohmi	2	630
Monte Carlo Simulations of Conductivity of Composite Electrodes for Solid	**Oxide** Fuel Cells	3	1123
Reforming of CH4 on Ni and Fe Anodes under Low Humidity Conditions in Solid	**Oxide** Fuel Cells Oxidation and Steam	4	1161
Characterization of Ni-YSZ Anode Degradation for Substrate-Type Solid	**Oxide** Fuel Cells	5	1521
Characterization of Solid	**Oxide** Fuel Cells by Use of an Internal Pt Voltage Probe	5	1558
chemical Properties of Doped Lanthanum Chromites as Interconnectors for Solid	**Oxide** Fuel Cells Electro	5	1583
as High-Performance Electrode for Medium-Temperature Operating Solid	**Oxide** Fuel Cells. Polarization of Ceria-Based Anode with Highly Dispersed Ruthe	5	1700
Operating Properties of Solid	**Oxide** Fuel Cells Using BaCe0.8Gd0.2O3-Alpha Electrolyte	6	1888
Monte Carlo Simulations of Polarization Resistance of Composite Solid	**Oxide** Fuel Cells for Electrodes	6	1930
anthanum Calcium Chromite-Lanthanum Strontium Manganite Interfaces in Solid	**Oxide** Fuel Cells Stability of L	7	2332
ect Structure A New Candidate for the Solid	**Oxide** Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Transport Properties and Def	9	2963
sss Chromium Vapor Species over Solid	**Oxide** Fuel Cell Interconnect Materials and Their Potential for Degradation Proces	11	3642
f Anodic Concentration Overvoltage on Power Generation Characteristics of Solid	**Oxide** Fuel Cells Effect o	11	3699
n the Si/SiO2 Interface Region	**Oxide** Growth Enhancement Related to Annealing Induced Arsenic Accumulation i	1	L15
on	**Oxide** Growth Enhancement on Highly n-Type Doped Silicon under Steam Oxidati	4	1434
ween Wet and Dry Oxidation	**Oxide** Growth Effects in Micron and Submicron Field Regions. A Comparison Bet	9	2953
Deformation Mechanism of Porous Nickel	**Oxide** in Molten Li/K Carbonates	8	2481
g in Secondary Li/LiMn2O4 Cells FTIR Spectroscopy of Metal	**Oxide** Insertion Electrodes: A New Diagnostic Tool for Analysis of Capacity Fadin	6	L136
Deposition of Tin	**Oxide** into Porous Silicon by Atomic Layer Epitaxy	2	683
Mixed Potential Hydrogen Sensor Combining	**Oxide** Ion Conductor with Oxide Electrode	7	L154
Conducting and Charge-Trapping Defects in Buried	**Oxide** Layers of SIMOX Structures	1	347
Synthesis, Structure, and Electrochemical Properties of a New Lithium Iron	**Oxide**, LiFeO2, with a Corrugated Layer Structure	8	2435
Determination of the Critical Temperature for Forming a Chromium-Rich	**Oxide** on AISI 430 Stainless Steel and Its Corrosion Resistance	8	2493
rption Near-Edge Spectroscopic Study of the Cathodic Reduction of Artificial Iron	**Oxide** Passive Films In Situ X-Ray Abso	2	574
Defect Generation during Epitaxial CoSi2 Formation Using Co/Ti Bilayer on	**Oxide** Patterned (100)Si Substrate and Its Effect on the Electrical Properties	3	L56
The Role of Metal Hydrides in Electrode Reactions on Metal	**Oxide** Semiconductors	10	3273
Passivation of Sodium Ions in Metal	**Oxide** Semiconductor Structures by Annealing with Ultraviolet Light	10	3389
Wettability of Polished Silicon	**Oxide** Surfaces	2	643
Electrochromic Properties of Cobalt	**Oxide** Thin Films Prepared by Chemical Vapor Deposition	4	1383
Electrochromic Properties of Iron	**Oxide** Thin Films Prepared by Chemical Vapor Deposition	5	1675
cetonate and Chromium Hexacarbonyl Chromium	**Oxide** Thin Films Prepared by Chemical Vapor Deposition from Chromium Acetyla	6	1955
Electrochemically Reduced Polycrystalline Tin	**Oxide** Thin Films. Surface Analysis and Electroplated Copper Adhesion	6	2048
Reaction of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione (H+hfac) with Iron and Iron	**Oxide** Thin Films	10	3257
odeling and Characterization of Gas-Phase Etching of Thermal Oxide and TEOS	**Oxide** Using Anhydrous HF and CH3OH M	3	1099

		Issue	Page
Thickness Dependence of	**Oxide** Wearout	11	3736
Site-Saturation Model for the Optical Efficiency of Tungsten	**Oxide-Based** Devices	9	L186
Five Percent Platinum-Tungsten	**Oxide-Based** Electrocatalysts for Phosphoric Acid Fuel Cell Cathodes	12	3842
Selective CO Detection by Using Indium	**Oxide-Based** Semiconductor Gas Sensor	2	L36
, and Textural Approaches Oxygen Evolution on Co-Cu-Zn Ternary Spinel	**Oxide-Coated** Electrodes in Alkaline Solution. Integration of Statistical, Electroche	4	1218
Near-Global Planarization of	**Oxide-Filled** Shallow Trenches Using Chemical Mechanical Polishing	11	3718
-Layer Capacitor with Isotropic High-Density Graphite Electrode and Polyethylene	**Oxide/LiClO4** Polymer Electrolyte All-Solid-State Electric Double	12	3982
Porous Nickel	**Oxide/Nickel** Films for Electrochemical Capacitors	1	124
ial Variation in Single-Layer and Multilayer Devices of Different Mixed-Conducting	**Oxides** Analytic Solution for Charge Transport and Chemical-Potent	10	3214
Dissolution of Spinel	**Oxides** and Capacity Losses in 4 V Li/LixMn2O4 Cells	7	2204
Bismuth(III) and Copper(II)	**Oxides** as Catalysts for the Electro-oxidation of Organic Compounds	11	3435
Barrier Height Lowering and Instability of Gate	**Oxides** Due to Dilute Hydrofluoric Acid Pretreatment	3	973
Infrared Spectroscopy Study of Chemical	**Oxides** Formed by a Sequence of RCA Standard Cleaning Treatments	9	2995
Angle and Electrolyte Displacement Meniscus Behavior of Metals and	**Oxides** in Molten Carbonate under Oxidant and Reducing Atmospheres. I. Contact	8	2442
Confinement Phenomena in Buried	**Oxides** of SIMOX Structures as Affected by Processing	2	695
opper Decoration Followed by TEM Observation Identifying Defects in the Buried	**Oxides** of SOI Substrates C	7	2357
tial Electrochemical Potential on the Growth Mechanism and Properties of Anodic	**Oxides** on (100) Si Influence of the Ini	9	2931
Nonuniformities in Chemical	**Oxides** on Silicon Surfaces Formed during Wet Chemical Cleaning	7	2280
Transpassive Dissolution of Cr and Sputter-Deposited Cr	**Oxides** Studied by In Situ X-Ray Near-Edge Spectroscopy	12	3997
Electropolymerization of 1,4-bis(Pyrrol-2-yl)benzene in the Presence of the Easily	**Oxidized** Electrolyte Sodium Tetraphenylborate	8	L161
Conduction and Charge-Trapping Characteristics of MOS Capacitors with	**Oxidized** Nitride Films of Different Nitride Thicknesses under Positive Stress Bias	1	368
Electrical Properties of Thermally	**Oxidized** Porous Silicon	9	2972
t Technique Surface and Interfacial Roughness of Polished and	**Oxidized** Silicon Wafers Evaluated by an Infrared Differential Interference Contras	11	L254
Thermodynamics of the Formation of TiN from TiCl4-NH3-H2 on a Patterned	**Oxidized** Silicon Substrate	10	3251
The Redox Chemistry of Niobium(V) Fluoro and	**Oxofluoro** Complexes in LiF-NaF-KF Melts	6	1793
lectrode Reaction at the Compact La1-xSrxMnO3/Stabilized Zirconia Interface in	**Oxygen** Atmospheres A Chemical Diffusion-Controlled E	10	3085
Methodology for the Certification of Reference Specimens for Determination of	**Oxygen** Concentration in Semiconductor Silicon by Infrared Spectrophotometry	1	258
Asymmetric Distribution of	**Oxygen** Concentration in the Si Melt of a Czochralski System	2	722
Barrier Effect of TaSiN Layer for	**Oxygen** Diffusion	11	L264
Ohmic Resistance of the Electrode-Electrolyte Interface in Au/YSZ	**Oxygen** Electrodes	4	L92
Electrode Kinetics of Porous Mixed-Conducting	**Oxygen** Electrodes	11	3854
Hydrogen and	**Oxygen** Evolution on Boron-Doped Diamond Electrodes	6	L133
ution. Integration of Statistical, Electrochemical, and Textural Approaches	**Oxygen** Evolution on Co-Cu-Zn Ternary Spinel Oxide-Coated Electrodes in Alkalin	4	1218
and Cr Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic Properties for	**Oxygen** Evolution Effects of Ni, Fe, Cu,	5	1505
terization of the Electroless Ni-Mo-P/SnO2/Ti Electrodes with Heat-Treatment for	**Oxygen** Evolution in Alkaline Solution Charac	7	2158
Mechanism of the Elementary Electrochemical Processes Taking Place during	**Oxygen** Evolution on the Lead Dioxide Electrode	11	3816
Catalytic Activities of Rare-Earth Manganites for Cathodic Reduction of	**Oxygen** in Alkaline Solution	11	L266
Electrocatalytic Properties of Co, Pt, and Pt-Co on Carbon for the Reduction of	**Oxygen** in Alkaline Fuel Cells	7	2152
Thermal Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and	**Oxygen** in Further Stages and in Reoxidation	9	2946
Diffusion of	**Oxygen** in Silica Glass	6	1992
plantation Photoluminescence Measurements of Low-Level	**Oxygen** in Thin Silicon Crystal Using a C-O Complex Formed Through Carbon Im	9	2876
Thermal Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and	**Oxygen** in the Initial Stages	9	2936
ium Superior	**Oxygen** Ion Conductivity of Lanthanum Gallate Doped with Strontium and Magnes	5	1644
Equivalent Weights Microelectrode Investigation of	**Oxygen** Permeation in Perfluorinated Proton Exchange Membranes with Different	3	927
s Optical Waveguide Fabrication Optimized	**Oxygen** Plasma Etching of Polyurethane-Based Electro-optic Polymer for Low Los	11	3648
Computer Simulation of	**Oxygen** Precipitation in Czochralski-Grown Silicon during HI-LO-HI Anneals	3	995
Crystallite Size Effects of Carbon-Supported Platinum on	**Oxygen** Reduction in Liquid Acids	1	18
Kinetics of	**Oxygen** Reduction at IrO2-Coated Titanium Electrode in Alkaline Solution	5	1485
Effect of Platinum Particle Size on the	**Oxygen** Reduction Reaction on 2% Pt-1% H2WO4 in Phosphoric Acid	6	1814
and Compositional Characterization of High Energy Separation by Implantation of	**Oxygen** Structures Using Infrared Spectroscopy Structural	9	3019
d Films Characterization of High	**Oxygen**: Tetraethylorthosilicate Ratio Plasma-Enhanced Chemical Vapor Deposite	3	1079
	Oxygen Tracer Diffusion in Polycrystalline In2O3	8	2898
Critical Analysis of Potential Step Data for	**Oxygen** Transport in Electronically Conducting Perovskites	11	3497
m Electrodes Electrocatalysis of Anodic	**Oxygen-Transfer** Reactions: Oxidation of Cr(III) to Cr(VI) at Bi(V)-Doped PbO2-Fil	7	2119
ia at Anodized Ag-Pb Eutectic Alloy Electrodes Electrocatalysis of Anodic	**Oxygen-Transfer** Reactions. Temperature Effects on Oxidation of Ethylamine, Ala	8	2543
Thermal	**Oxynitridation** of Silicon in N2O Ambients	10	3372
A Model for the Gas-Phase Chemistry Occurring in a Furnace N2O	**Oxynitride** Process	5	1753
y Atmospheric-Pressure Chemical Vapor Deposition Using Tetraethoxysilane and	**Ozone** Characteristics of Silicon Dioxide Films on Patterned Substrates Pr	5	1715
An SiO2 Film Deposition Technology Using Tetraethylorthosilicate and	**Ozone** for Intermetal Dielectrics	5	1769

— P —

Distribution of Residual Stresses in Boron Doped	**p+** Silicon Films	10	3389
ons	**p-** and n-Type Silicon Electrochemical Properties in Dilute Hydrofluoric Acid Soluti	11	3832
e Electrosynthesis of	**p-Hydroxybenzaldehyde** from p-Hydroxymandelic Acid Using a Platinum Electrod	10	3166
Electrosynthesis of p-Hydroxybenzaldehyde from	**p-Hydroxymandelic** Acid Using a Platinum Electrode	10	3166
Photoelectrochemical Etching of	**p-InP** in Nitric Acid Solutions	9	L200
Surface Morphology of	**p-Type** (100) Silicon Etched in Aqueous Alkaline Solution	8	1744
Electroluminescence of Heavily Doped	**p-Type** Porous Silicon under Electrochemical Oxidation in Galvanostatic Regime	3	1055
Identification Possibility of Metallic Impurities in	**p-Type** Silicon by Lifetime Measurement	1	218
Planar Compatible Polymer Technology for	**Packaging** of Chemical Microsensors	6	2020
thesis of a New Family of Anion Receptors and the Studies of Their Effect on Ion	**Pair** Dissociation and Conductivity of Lithium Salts in Nonaqueous Solutions	12	3825
eactions at Noble Metal Surfaces at Low Potentials: With Particular Reference to	**Palladium** Anomalous Oxidation R	3	845
Plasma Treatment Process for	**Palladium** Chemisorption onto Polymers before Electroless Deposition	2	472
In Situ Formation of Coated and Composite	**Palladium** Particles via Spray Pyrolysis	11	3762
A	**Palladium** Sulfide Catalyst for Electrolytic Plating	4	1208
y on the Interaction Between Lithium Salt and Ethylene Carbonate Plasticizer for	**PAN-based** Electrolytes A Vibrational Spectroscopic Stud	5	1510
olution Determination of Transport and Electrochemical Kinetic	**Parameters** of Bare and Copper Coated LaNi4.27Sn0.24 Electrodes in Alkaline S	3	834
o to Saturation" Physical Electrochemistry of Strong Electrolytes Based on	**Partial** Dissociation and Hydration. Quantitative Interpretation of the Thermodyna	6	1789
The Hydrogen Reduction of WF6: A Kinetic Study Based on In Situ	**Partial** Pressure Measurements	5	1668
In Situ Scanning Tunneling Microscopy Kinetics of	**Particle** Coarsening at Gold Electrode/Electrolyte Solution Interfaces Followed by	2	466
oric Acid Effect of Platinum	**Particle** Size on the Oxygen Reduction Reaction on 2% Pt-1% H2WO4 in Phosph	6	1814
on Reactor. Experimental and Numerical Results	**Particle** Size Distribution in a Low Pressure SiH4:O2:He Chemical Vapor Depositi	10	3397
Photoimage Formation in a TiO2	**Particle-Incorporated** Prussian Blue Film	11	3482
Analysis of Transient Hydrogen Uptake by Metal Alloy	**Particles**	12	4039
Potential Distribution in Semiconductor	**Particles**	6	L131
Amorphous Carbon Electrode and Effect of Anions on the Crystal Habit of Cu2O	**Particles** Single-Crystal Cu2O Formation on	7	2105
Atmospheric Corrosion of Zinc in the Presence of Ammonium Sulfate	**Particles**	5	1539
Atmospheric Corrosion of Aluminum in the Presence of Ammonium Sulfate	**Particles**	4	1175
rous Semiconductor Electrode Films Photoelectrochemical Doping of TiO2	**Particles** and the Effect of Charge Carrier Density on the Photocatalytic Activity of	11	3712
First Observations of 0.1 um Size	**Particles** on Si Wafers Using Atomic Force Microscopy and Optical Scattering	12	4125
Electrochemical Behavior of Quasi-Spherical Beta-Ni(OH)2	**Particles** Studied by Raman Spectroscopy	8	2447
In Situ Formation of Coated and Composite Palladium	**Particles** via Spray Pyrolysis	11	3762
Anomalous Oxidation Reactions at Noble Metal Surfaces at Low Potentials: With	**Particular** Reference to Palladium	3	845
Semiconductor Electrochemistry of	**Particulate** Pyrite: Dissolution via Hole and Electron Pathways	10	3192
Energetic Characterizations of	**Particulate** RbPb2Nb3O10 Electrodes	5	1492
Using 13CO and 18O18O Tracers to Study the Removal of	**Parts** per Million CO and O2 from N2 over a Ni-Al2O3 Catalyst	8	2429
Fine-line Patterning of	**Parylene-n** by Reactive Ion Etching for Application as an Interlayer Dielectric	8	1974
The Role of Chemical Species in the	**Passivation** of <100> Silicon Surfaces by HF in Water-Ethanol Solutions	12	4059
g with Ultraviolet Light	**Passivation** of Sodium Ions in Metal Oxide Semiconductor Structures by Annealin	10	3359
Spectroelectrochemical Studies on Dissolution and	**Passivation** of Zinc Electrodes in Alkaline Solutions	7	2125
Mechanisms for Oxidation and	**Passive** Behavior of Nickel in Molten Carbonate	7	2272

			Issue	Page
Near-Edge Spectroscopic Study of the Cathodic Reduction of Artificial Iron Oxide	**Passive** Films	In Situ X-Ray Absorption	2	574
An X-Ray Absorption Near-Edge Spectroscopic Study of the Structure of	**Passive** Films on Amorphous Al-Fe-Ce Alloys		2	614
XPS and STM Study of	**Passive** Films Formed on Fe-22Cr(110) Single-Crystal Surfaces		4	1182
All-Solid-State Measurements of Electrical Properties of	**Passive** Films on Lithium		6	1690
Electronic Structure of	**Passive** Films Formed on Molybdenum-Containing Ferritic Stainless Steels		10	3088
High-Performance Positive	**Paste** for Lead-Acid Batteries		9	2841
onductor Electrochemistry of Particulate Pyrite: Dissolution via Hole and Electron	**Pathways**	Semic	10	3192
Computational Chemistry Predictions of Kinetics and Major Reaction	**Pathways** for Germane Gas-Phase Reactions		8	2648
Competitive	**Pathways** in the Electrochemical Reduction of Citral		8	2482
Workpiece,	**Pattern**, and Feature Scale Current Distributions		2	488
elect Generation during Epitaxial CoSi2 Formation Using Co/Ti Bilayer on Oxide	**Patterned** (100)Si Substrate and Its Effect on the Electrical Properties	D	3	L56
Three-Dimensional Calculation of Current Distribution in Electrodeposition on	**Patterned** Cathode with Auxiliary Electrode		2	480
Thermodynamics of the Formation of TiN from TiCl4-NH3-H2 on a	**Patterned** Oxidized Silicon Substrate		10	3251
Selective Electroless Nickel Deposition on a	**Patterned** Phosphonate and Carboxylate Polymer Films		2	691
g Tetraethoxysilane and Ozone Characteristics of Silicon Dioxide Films on	**Patterned** Substrates Prepared by Atmospheric-Pressure Chemical Vapor Deposit		5	1715
	Patterning of Benzocyclobutene by Reactive Ion Etching		8	2685
Dielectric Fine-line	**Patterning** of Parylene-n by Reactive Ion Etching for Application as an Interlayer		6	1974
A Model for Nanolaminated Growth	**Patterns** in Zn and Zn-Co Electrodeposits		5	1577
The Effect of Multilayer	**Patterns** on Temperature Uniformity during Rapid Thermal Processing		3	1142
Characterization of Solution Derived RuO2 Electrodes for	**Pb(Zr,Ti)O3** Microcapacitors		9	3008
idation Processes on Lead Electrode in H2SO4. III. A Study of the Growth of the	**PbO** Layer by Linear Sweep Voltammetry	Kinetics of Ox	4	1157
f Anodic Oxygen-Transfer Reactions: Oxidation of Cr(III) to Cr(VI) at Bi(V)-Doped	**PbO2-Film** Electrodes	Electrocatalysis o	7	2119
em for Hydrogenation of Styrene Using a Two-Compartment Cell Separated by a	**Pd** Sheet Electrode	A New Successive Syst	4	L71
Electrochemical Deposition of	**Pd**, Ti, and Ge for Applications in GaAs Technology		4	L73
Nature of Sensitivity Promotion in	**Pd-Loaded** SnO2 Gas Sensor		7	L148
rbonates A Kinetic Study of Spike	**Peaks** Observed under Pressurized Oxidant Gas Atmospheres in Molten Alkali Ca		7	2315
rochemical Studies of Spinel Phase LiMn2O4 Cathode Materials Prepared by the	**Pechini** Process	Synthesis and Elect	3	879
aracteristics of Spinel Phase LiMn2O4-Based Cathode Materials Prepared by the	**Pechini** Process. Influence of Firing Temperature and Dopants	Electroche	11	3890
Piezoelectric Detection of Changes in Surface Energy of Gold Electrode in	**Perchlorate** Solutions Containing Iodide Ions		3	899
Studies of the Electrochemical Double Layer at (100) Au in	**Perchloric** Acid Solutions by In Situ Infrared Spectroscopy		8	L171
Microelectrode Investigation of Oxygen Permeation in	**Perfluorinated** Proton Exchange Membranes with Different Equivalent Weights		3	927
	Perfluoro-ethylene-1,2-bis-phosphonic Acid Fuel Cell Electrolyte		9	2765
tomatic Theoretical Study of Alloys of Platinum for Enhanced Methanol Fuel Cell	**Performance**	Sys	6	2075
Sodium/Phosphorus-Sulfur Cells. I. Cell	**Performance**		2	406
plications The	**Performance** and Stability of Ambient Temperature Molten Salts for Solar Cell Ap		10	3099
el Gas	**Performance** Data of a Proton Exchange Membrane Fuel Cell Using H2/CO as Fu		12	3838
High	**Performance** Direct Methanol Polymer Electrolyte Fuel Cells		1	L12
Synthesis of Amorphous MoO2+delta and Its Electrode	**Performance** in Lithium Batteries		7	L143
Design and	**Performance** of a New Reactor for Vapor Phase Epitaxy of 3C, 6H, and 4H SiC		9	2910
The Influence of Side Reactions on the	**Performance** of Electrochemical Double-Layer Capacitors		6	1806
Synthesis and Cathodoluminescent	**Performance** of Green-Emitting SrS:Mn Phosphors		7	2328
	Performance of Lithium/V2O5 Xerogel Coin Cells		11	3473
Effects of Microstructure of Carbon Support in the Catalyst Layer on the	**Performance** of Polymer-Electrolyte Fuel Cells		7	2245
Safety and	**Performance** of Tadiran TLR-7103 Rechargeable Batteries		7	2110
Repair of Plasma Etch Related Gate	**Perimeter** Damage Using Low Temperature Oxidation		2	628
A Study of the Transport of Formaldehyde and Ethylene Glycol Through Ion	**Permeable** Membranes in Electrolytic Cells		1	175
nt Weights Microelectrode Investigation of Oxygen	**Permeation** in Perfluorinated Proton Exchange Membranes with Different Equivale		3	927
The Effects of Multiple Electroplated Zinc Layers on the Inhibition of Hydrogen	**Permeation** Through an Iron Membrane		6	1871
Luminescence of Mn4+ in the Distorted	**Perovskite** Gd2MgTiO6		9	L203
Analysis of Potential Step Data for Oxygen Transport in Electronically Conducting	**Perovskites**	Critical	11	3487
Electrochemical Properties of Mixed Conducting	**Perovskites** La1-xMxCo1-yFeyO3-delta (M = Sr, Ba, Ca)		9	2722
Fabrication of Anatase Thin Films from	**Peroxo-Polytitanic** Acid by Spray Pyrolysis		9	L191
Reactivity of Lithium Intercalated into	**Petroleum** Coke with Carbonate Electrolytes		2	391
Oxidation of n-InP and Indium in the Negative Potential Region at	**pH** 5		2	524
Enhanced Etching Rate of Silicon in Fluoride Containing Solutions at	**pH** 6.4		8	2683
Scanning Microsensors for Measurement of Local	**pH** Distributions at the Microscale		8	L174
edance Analysis for Li+ Insertion of a PVLambda-MnO2 Electrode in an Aqueous	**Phase**	AC Imp	8	2910
havior of a Lambda-MnO2 Electrode Accompanying Li+ -Insertion in an Aqueous	**Phase**	Electrochromic Be	3	905
en Electroadsorption from the Electrolyte with Hydrogen Adsorption from the Gas	**Phase**	Comparison of Hydrog	4	1240
The High Temperature	**Phase** Diagram of Li1+xMn2-xO4 and Its Implications		6	1783
In Situ Optical Analysis of the Gas	**Phase** during the Deposition of Silicon Carbide from Methyltrichlorosilane		5	1654
Thermodynamic Analysis of GaAs1-xPx Vapor	**Phase** Epitaxy		8	2631
Design and Performance of a New Reactor for Vapor	**Phase** Epitaxy of 3C, 6H, and 4H SiC		9	2910
Sodium/Phosphorus-Sulfur Cells. II.	**Phase** Equilibria		2	412
f Electrochemical Properties of Ti0.35Zr0.65NixV2-x-yMny Alloys with C14 Laves	**Phase** for Nickel/Metal Hydride Batteries	Studies o	2	429
Synthesis and Electrochemical Studies of Spinel	**Phase** LiMn2O4 Cathode Materials Prepared by the Pechini Process		3	879
Firing Temperature and Dopants Electrochemical Characteristics of Spinel	**Phase** LiMn2O4-Based Cathode Materials Prepared by the Pechini Process. Influe		11	3890
harge Effects of RF Power on Plasma	**Phase** Reactions and Film Structure in Deposition of a-C:H by Styrene/Argon Disc		4	1481
ss	**Phase** Transformation and Lattice Strain of alpha-AgI Stabilized in Superionic Gla		2	687
Batteries The Spinel	**Phases** LiMyMn2-yO4 (M = Co, Cr, Ni) as the Cathode for Rechargeable Lithium		1	178
Harmonic Analysis of Corroding Systems Considering Diffusion	**Phenomena**		12	4033
Confinement	**Phenomena** in Buried Oxides of SIMOX Structures as Affected by Processing		2	695
Studies of Niobium Electrocrystallization	**Phenomena** in Molten Fluorides		5	1570
Effect of Transport	**Phenomena** on Boron Concentration Profiles in Silicon Epitaxial Wafers		2	677
ptical Switching of Y-Hydride Thin Film Electrodes. A Remarkable Electrochromic	**Phenomenon**	O	10	3348
ical Oxidation of Glucose on Single Crystal and Polycrystalline Gold Surfaces in	**Phosphate** Buffer	Electrochem	3	759
Superprotonic Conductors of Glassy Zirconium	**Phosphates**		1	144
Electrochromism of Electrochemically Codeposited Composites of	**Phosphomolybdic** Acid and Tungsten Trioxide		9	2784
Selective Electroless Nickel Deposition on Patterned	**Phosphonate** and Carboxylate Polymer Films		2	691
Electrophoretic Deposition of ZnO:Zn	**Phosphor** for Field Emission Display Applications		12	3923
A New Long Phosphorescent	**Phosphor** with High Brightness, SrAl2O4:Eu2+,Dy3+		8	2670
A New Long	**Phosphorescent** Phosphor with High Brightness, SrAl2O4:Eu2+,Dy3+		8	2670
Kinetics and Modeling of Wet Etching of Aluminum Oxide by Warm	**Phosphoric** Acid		2	619
latinum Particle Size on the Oxygen Reduction Reaction on 2% Pt-1% HZWO4 in	**Phosphoric** Acid	Effect of P	6	1914
Five Percent Platinum-Tungsten Oxide-Based Electrocatalysts for	**Phosphoric** Acid Fuel Cell Cathodes		12	3842
Synthesis and Cathodoluminescent Performance of Green-Emitting SrS:Mn	**Phosphors**		7	2328
Preparation and Characterization of Fine-Grain Yttrium-Based	**Phosphors** by Sol-Gel Process		1	189
Electron Spectroscopy for Chemical Analysis of Cool White	**Phosphors** Coated with SiO2 Thin Film		1	362
Modeling and Analysis of a New Multiwafer Hot Wall	**Phosphorus** Doping Reactor		4	1362
Control of Surface Concentration of Boron or	**Phosphorus** Employing Ion Shower Doping		2	712
Nitridation-Retarded Diffusion of	**Phosphorus** in <100> Silicon		1	382
Infrared Spectroscopic Analysis of	**Phosphosilicate** Glass Films for Micromachining		3	988
Nonlinear Iron Electrochemical Oscillator: Coupling and	**Photo** Effects		7	2258
	Photo- and Chemiluminescence from Wohler Siloxanes		8	2674
Greatly Enhanced Sub-Bandgap Photocurrent in Porous GaP	**Photoanodes**		3	1137
	Photoassisted Liquid-Phase Deposition of Silicon Dioxide		8	2044
hemical Doping of TiO2 Particles and the Effect of Charge Carrier Density on the	**Photocatalytic** Activity of Microporous Semiconductor Electrode Films	Pho	11	3712
Photolytic and	**Photocatalytic** Destruction of Formaldehyde in Aqueous Media		5	1562
Electromodulation of Luminescence in Organic	**Photoconductors**		1	316
Greatly Enhanced Sub-Bandgap	**Photocurrent** in Porous GaP Photoanodes		3	1137
trochemically Active Species in the Electrolyte	**Photocurrent** Losses in Nanocrystalline/Nanoporous TiO2 Electrodes Due to Elec		10	3173
erties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. II. Intensity Modulated	**Photocurrent** Spectroscopy	Electrical Prop	8	2538

		Issue	Page
Schottky Contacts on n-InP and Their Application for Metal-Semiconductor-Metal	**Photodetectors** Electrochemically Fabricated High-Barrier	6	1948
Micropattern Formation on ZnO Films Using a	**Photodissolution** Reaction	11	3743
the Photocatalytic Activity of Microporous Semiconductor Electrode Films	**Photoelectrochemical** Doping of TiO2 Particles and the Effect of Charge Carrier	11	3712
mer Electrolyte Interface	**Photoelectrochemical** Energy Conversion at the Conjugated Polymer/Redox Poly	7	2310
	Photoelectrochemical Etching of p-InP in Nitric Acid Solutions	9	L200
Simultaneous Scanning Electrochemical and	**Photoelectrochemical** Microscopy by Use of a Metallized Optical Fiber	12	3853
hermal Oxidation of Titanium Coated with Tungsten The	**Photoelectrochemical** Response of TiO2-WO3 Mixed Oxide Films Prepared by T	7	2226
Potential-Induced Changes in the Surface Morphology of (100) n-InP Samples	**Photoelectrochemically** Etched	9	2815
Contact Etching Process Characterization by Using Angular X-Ray	**Photoelectron** Spectroscopy Technique	4	1347
c0.7 Electrochemical and X-Ray	**Photoelectron** Spectroscopy Characterization of Surface Films on MmNi3.5Al0.8C	8	2422
orption of Tungsten Hexafluoride on Silicon and Silicon Dioxide Studied by X-Ray	**Photoelectron** Spectroscopy Effects of Plasma Excitation and Chemical Pr	11	3670
	Photoimage Formation in a TiO2 Particle-Incorporated Prussian Blue Film	11	3682
	Photoluminescence in the Earliest stages of Porous Silicon Formation	8	L164
Using a C-O Complex Formed Through Carbon Implantation	**Photoluminescence** Measurements of Low-Level Oxygen in Thin Silicon Crystal	9	2876
Surface Electronic Structures and	**Photoluminescence** Mechanisms of Porous Si	8	2502
	Photoluminescence of Porous Silicon in Air	11	3704
	Photolytic and Photocatalytic Destruction of Formaldehyde in Aqueous Media	5	1562
	Photon Cascade Luminescence of Pr3+ in LaMgB5O10	12	4113
sited Silver Arrays Fabricated Utilizing Self-Assembled Alkanethiolate Monolayer	**Photoresist** Electrodepo	10	3117
Morphology and Strongly Enhanced	**Photoresponse** of GaP Electrodes Made Porous by Anodic Etching	1	305
High-Resolution Measurement of Resistivity Variations in Power Devices by the	**Photoscanning** Method	12	4105
ed Light Stimulation Response Time of	**Photostimulated** Luminescence of BaFX:Eu2+ and BaFCl:Pr3+ under Near-Infrar	7	2348
rochemical Interfaces Infrared	**Photothermal** Deflection Spectroscopy: A New Probe for the Investigation of Elect	5	1514
valuation Using the Effective Surface Recombination Speed for Schottky-Coupled	**Photovoltage** Measurements On Semiconductor Surface E	6	1958
Selective Oxidation of Thiols to Disulfides at Polymeric Cobalt	**Phthalocyanine** Chemically Modified Electrodes	4	1283
Electrochemical and Spectroelectrochemical Studies of Cobalt	**Phthalocyanine** Polymers	6	1900
Positive Materials for Rechargeable Lithium Batteries	**Physical** and Electrochemical Characterization of Quaternary Li-Mn-V-O Spinel as	3	1007
Electrical and	**Physical** Characterization of Tetraethylorthosilicate-O3 Borophosphosilicate Glass	10	3386
n of the Thermodynamic Properties of NaCl(aq) from "Zero to Saturation"	**Physical** Electrochemistry of Strong Electrolytes Based on Partial Dissociation an	6	1789
Relation Between	**Physical** Properties and Deposition Conditions of Electrodeposited CuInSe2	7	2173
on	**Physical** Property Change of FeOOH(AD)1/4 during Lithium Insertion and Extracti	9	2713
sis Technique	**Physicochemical** Properties of SnO2-Sb2O5 Films Prepared by the Spray Pyroly	1	203
orate Solutions Containing Iodide Ions	**Piezoelectric** Detection of Changes in Surface Energy of Gold Electrode in Perchl	3	899
y The Effect of Ultrafine	**Pigment** Color Filters on Cathode Ray Tube Brightness, Contrast, and Color Purit	3	1063
Repassivation of	**Pits** in Aluminum Thin Films	6	1834
Dislocation Etch	**Pits** in GaN Epitaxial Layers Grown on Sapphire Substrates	1	L17
Mechanism of the Elementary Electrochemical Processes Taking	**Place** during Oxygen Evolution on the Lead Dioxide Electrode	11	3816
	Planar Compatible Polymer Technology for Packaging of Chemical Microsensors	6	2020
hing Near-Global	**Planarization** of Oxide-Filled Shallow Trenches Using Chemical Mechanical Polis	11	3718
Microscale Dishing Effect in a Chemical Mechanical	**Planarization** Process for Trench Isolation	12	L281
rotron-Radiation-Excited Etching of Silicon Wafer Enhanced by Disk-Shaped CF4	**Plasma** Synch	12	4109
Low Energy Electron-Enhanced Etching of GaN/Si in Hydrogen Direct Current	**Plasma**	11	L251
Extremely High Etch Rates of In-Based III-V Semiconductors in BCl3/N2 Based	**Plasma**	10	3394
Behavior of Amorphous SiC Layers Deposited by Electron Cyclotron Resonance	**Plasma** Rapid Thermal Annealing	1	271
A WSixN Diffusion Barrier Formed with Electron Cyclotron Resonance Nitrogen	**Plasma**	11	3747
	Plasma Assisted Dry Etching of Cobalt Silicide for Microelectronics Applications	2	701
Comparison of ICl and IBr	**Plasma** Chemistries for Etching of InGaAlP Alloys	11	3656
Room Temperature Deposition of Silicon Dioxide Films by Ion-Assisted	**Plasma** Enhanced Chemical Deposition	4	1443
Dielectric Constant and Stability of Fluorine-Doped	**Plasma** Enhanced Chemical Vapor Deposited SiO2 Thin Films	6	2015
es from Si2H6-H2-SiF4 Remote	**Plasma** Enhanced Chemical Vapor Deposition of Silicon Films at Low Temperatur	8	2640
Cause of Aligned-Orientation Growth of Titanium Silicide in	**Plasma** Enhanced Chemical Vapor Deposition	11	3778
Electron Cyclotron Resonance	**Plasma** Etching of Native TiO2 on TiN	1	264
Repair of	**Plasma** Etch Related Gate Perimeter Damage Using Low Temperature Oxidation	2	628
High Ion Density	**Plasma** Etching of InGaP, AlInP, and AlGaP in CH4/H2/Ar	3	1093
ling on Damage in AlGaAs Induced by Electron Cyclotron Resonance SF6/CHF3	**Plasma** Etching Effects of Annea	3	1151
tion and Residue Elimination of Hot Aluminum Etching in a Transformer Coupled	**Plasma** Etcher Characteriza	5	1763
an Artificial Neural Network	**Plasma** Etching Endpointing by Monitoring Radio-Frequency Power Systems with	6	2029
Waveguide Fabrication Optimized Oxygen	**Plasma** Etching of Polyurethane-Based Electro-optic Polymer for Low Loss Optical	11	3648
Modeling of Heat Transport and Wafer Heating Effects during	**Plasma** Etching	11	3674
Effects of Transmitted Electrons on Inductively Coupled	**Plasma** Etching of a Si Wafer Through an Al Mask	11	3752
d Silicon Dioxide Studied by X-Ray Photoelectron Spectroscopy Effects of	**Plasma** Excitation and Chemical Pretreatment on Adsorption of Tungsten Hexaflu	11	3670
Deposition of Diamond from a	**Plasma** Jet with Dichlorobenzene as Carbon Source	6	2003
gon Discharge Effects of RF Power on	**Plasma** Phase Reactions and Film Structure in Deposition of a-C:H by Styrene/Ar	4	1451
Simulations of a Feedback Control Scheme for an Inductively Coupled	**Plasma** Source for Etching Applications	4	1375
A Study on Low Dielectric Material Deposition Using a Helicon	**Plasma** Source	9	2990
ctroless Deposition	**Plasma** Treatment Process for Palladium Chemisorption onto Polymers before Ele	2	472
Characterization of High Oxygen: Tetraethylorthosilicate Ratio	**Plasma-Enhanced** Chemical Vapor Deposited Films	3	1079
Ar	**Plasma-Induced** Damage in AlGaAs	9	L219
Etching of Tantalum in Fluorine-Containing High Density	**Plasmas**	10	3286
Comparison of Dry Etching Techniques for III-V Semiconductors in CH4/H2/Ar	**Plasmas**	2	752
nd Morphology Control during Etching of SiC Using Electron Cyclotron Resonant	**Plasmas** Profile a	8	2820
Studies of Polyvinyl Chloride Films Exposed to H2/O2/Ar Downstream Microwave	**Plasmas** In Situ Infrared	9	2898
ication and Removal of Trace Organic Contamination on Silicon Wafers Stored in	**Plastic Boxes** Identif	10	3279
Comparison of Modeling Predictions with Experimental Data from	**Plastic** Lithium-Ion Cells	6	1890
A New Class of Advanced Polymer Electrolytes and Their Relevance in	**Plastic-Like,** Rechargeable Lithium Batteries	1	6
troscopic Study on the Interaction Between Lithium Salt and Ethylene Carbonate	**Plasticizer** for PAN-based Electrolytes A Vibrational Spec	5	1510
Modeling of	**Plated** Through-Hole Processes. I. Current Distribution	10	3139
on Modeling of	**Plated** Through-Hole Processes. II. Effect of Leveling Agents on Current Distributi	10	3144
A Palladium Sulfide Catalyst for Electrolytic	**Plating**	4	1206
midazolium Chloride Melt	**Plating** and Stripping of Sodium from a Room Temperature 1,2-Dimethyl-3-propyli	7	2262
azolium Chloride Melt	**Plating** and Stripping of Sodium from a Room Temperature 1-Methyl-3-propylimid	12	3820
Current Distribution and Current Efficiency in Pulsed Current	**Plating** of Nickel	9	2770
A Novel	**Plating** Process for Microencapsulating Metal Hydrides	8	2596
A Search for the Mechanism of Direct Copper	**Plating** via Bridging Ligands	11	3521
e Sensor	**Platinization** of Shapable Electroconductive Polymer Film for an Improved Glucos	10	3336
Conducting Polymers. XIX. Oxidation of Aniline at Bare and Polyaniline-Modified	**Platinum** Electrodes Studied by Electrochemical Impedance Spectroscopy	4	1269
Anodic Oxidation of Ethylenediaminetetraacetic Acid on	**Platinum** Electrode in Alkaline Medium	5	1636
The Anodic Behavior of Azide Ions on Gold and	**Platinum** Electrodes in Neutral Electrolyte	6	1827
lectrosynthesis of p-Hydroxybenzaldehyde from p-Hydroxymandelic Acid Using a	**Platinum** Electrode E	10	3166
Systematic Theoretical Study of Alloys of	**Platinum** for Enhanced Methanol Fuel Cell Performance	6	2075
atalyst Based on Highly Porous Carbonized Polyacrylonitrile Foam with Very Low	**Platinum** Loading A New Fuel Cell Electroc	1	L7
Crystallite Size Effects of Carbon-Supported	**Platinum** on Oxygen Reduction in Liquid Acids	1	18
n Phosphoric Acid Effect of	**Platinum** Particle Size on the Oxygen Reduction Reaction on 2% Pt-1% H2WO4 i	6	1814
athodes Five Percent	**Platinum-Tungsten** Oxide-Based Electrocatalysts for Phosphoric Acid Fuel Cell C	12	3842
Nonparticulate Origins of Light	**Point** Defects on Polished Silicon Wafers	6	2068
Observation of Electrode	**Poisoning** during the Electro-oxidation of Aromatic Alcohols on (111) Au	7	2088
rty Relations of Solid Oxide Fuel Cell Cathodes and Current Collectors. Cathodic	**Polarization** and Ohmic Resistance Microstructure-Prope	2	630
edance Spectra for Systems with a Large Ohmic Resistance with Respect to the	**Polarization** Impedance The Error Structure of Imp	12	3880
erformance Electrode for Medium-Temperature Operating Solid Oxide Fuel Cells.	**Polarization** of Ceria-Based Anode with Highly Dispersed Ruthenium Catalysts in	5	1700
ctrolyte Effect of Electrochemical	**Polarization** on Optical Properties of Sputter-Prepared Tin Nitride in Aqueous Ele	1	326
Monte Carlo Simulations of	**Polarization** Resistance of Composite Solid Oxide Fuel Cells for Electrodes	6	1930
rence Contrast Technique Surface and Interfacial Roughness of	**Polished** and Oxidized Silicon Wafers Evaluated by an Infrared Differential Interfe	11	L254

		Issue	Page
Wettability of	**Polished** Silicon Oxide Surfaces	2	643
Nonparticulate Origins of Light Point Defects on	**Polished** Silicon Wafers	6	2068
lobal Planarization of Oxide-Filled Shallow Trenches Using Chemical Mechanical	**Polishing** Near-G	11	3718
emical Vapor Deposited Tungsten Films with Relevance to Chemical Mechanical	**Polishing** Electrochemistry of Ch	12	4095
Modeling of the Wear Mechanism during Chemical-Mechanical	**Polishing**	2	716
Study of the Redox Process of	**Poly(5-amino-1-naphthol)** Thin Film by In Situ Raman Spectroscopy	7	2118
A New Humidity Sensor Using the Composite Film Derived from	**Poly(o-phenylenediamine)** and Poly(vinyl alcohol)	9	2925
ored Matrix for Three-Color Electrochromic Displays	**Poly(p-phenylene** terephthalamide) Film Immobilizing Oligomer Species as a Col	9	L212
ity Sensor Using the Composite Film Derived from Poly(o-phenylenediamine) and	**Poly(vinyl** alcohol) A New Humid	9	2925
Large-Area Electrochromic Coatings. Composites of Polyaniline and	**Polyacrylate-Silica** Hybrid Sol-Gel Materials	8	2591
A New Fuel Cell Electrocatalyst Based on Highly Porous Carbonized	**Polyacrylonitrile** Foam with Very Low Platinum Loading	1	L7
Large-Area Electrochromic Coatings. Composites of	**Polyaniline** and Polyacrylate-Silica Hybrid Sol-Gel Materials	8	2591
Electrochemical Formation of	**Polyaniline** in Selenic Acid	10	3879
Electrochemistry of Conducting Polymers. XIX. Oxidation of Aniline at Bare and	**Polyaniline-Modified** Platinum Electrodes Studied by Electrochemical Impedance	4	1269
urier Transform Infrared Spectroscopic Studies on a Metal Complex-Immobilized	**Polyaniline/Prussian** Blue-Modified Electrode and the Application to the Electrore	11	3808
Electrochemical Lithium Intercalation into a	**Polyaniline/V2O5** Nanocomposite	9	L181
Thermal Stability of Proton Conducting Acid Doped	**Polybenzimidazole** in Simulated Fuel Cell Environments	4	1225
Application of the Potential Reversal Technique Topographic Changes of	**Polycrystalline** Ag and Cu Electrodes in Acid Aqueous Solutions Resulting from a	7	2294
Electrochemical Oxidation of Glucose on Single Crystal and	**Polycrystalline** Gold Surfaces in Phosphate Buffer	3	759
Oxygen Tracer Diffusion in	**Polycrystalline** In2O3	8	2698
Steady-Stage Growth of NiO Scales on Ceria-Coated	**Polycrystalline** Nickel	9	3000
Highly Sensitive Etchants for Delineation of Defects in Single- and	**Polycrystalline** Silicon Materials	12	4079
Leakage Current Mechanism of Amorphous and	**Polycrystalline** Ta2O5 Films Grown by Chemical Vapor Deposition	3	977
Adhesion Electrochemically Reduced	**Polycrystalline** Tin Oxide Thin Films. Surface Analysis and Electroplated Copper	6	2048
m Temperature Molten Salt Electrolyte and of Its Polymer Electrolyte Solutions in	**Polydimethylsiloxane** Voltammetry and Conductivity of a Polyether-Pyridi	2	401
olyte Solutions in Polydimethylsiloxane Voltammetry and Conductivity of a	**Polyether-Pyridinium** Room Temperature Molten Salt Electrolyte and of Its Polym	2	401
Synthesis of LiCH(SO2CF3)2 and Ionic Conductivity of	**Polyether-Salt** Complexes	4	1297
lectric Double-Layer Capacitor with Isotropic High-Density Graphite Electrode and	**Polyethylene** Oxide/LiClO4 Polymer Electrolyte All-Solid-State E	12	3982
onic Acid Group Prepared by RIGP Proton Transport Through	**Polyethylene-Tetrafluoroethylene-Copolymer-Based** Membrane Containing Sulf	9	2785
Investigation of	**Polyimide** Residue Due to Reactive Ion Etching in O2	4	1484
The Effect of Post-Cure Annealing on the Protective Properties of	**Polyimides** on a Chromium Substrate	10	3307
New Type of a Rocking-Chair Battery Family Based on a Graphite Anode and a	**Polymer** Cathode A	2	L29
An Organosulfur	**Polymer** Cathode with a High Current Capability for Rechargeable Batteries	10	3152
Analysis of Electrochemical Noise Data for	**Polymer** Coated Steel in the Time and Frequency Domains	12	L256
A	**Polymer** Electrolyte-Based Rechargeable Lithium/Oxygen Battery	1	1
atteries A New Class of Advanced	**Polymer** Electrolytes and Their Relevance in Plastic-Like, Rechargeable Lithium B	1	6
High Performance Direct Methanol	**Polymer** Electrolyte Fuel Cells	1	L12
Formic Acid Oxidation in a	**Polymer** Electrolyte Fuel Cell. A Real-Time Mass-Spectrometry Study	7	L158
ty of a Polyether-Pyridinium Room Temperature Molten Salt Electrolyte and of Its	**Polymer** Electrolyte Solutions in Polydimethylsiloxane Voltammetry and Co	2	401
A Temperature Study of the Ionic Conductivity of a Hybrid	**Polymer** Electrolyte	2	570
Characterization of	**Polymer** Electrolyte Fuel Cells Using AC Impedance Spectroscopy	2	887
Electro-osmotic Drag Coefficient of Water and Methanol in	**Polymer** Electrolytes at Elevated Temperatures	4	1280
Photoelectrochemical Energy Conversion at the Conjugated Polymer/Redox	**Polymer** Electrolyte Interface	7	2310
Self-Humidifying	**Polymer** Electrolyte Membranes for Fuel Cells	12	3847
tor with Isotropic High-Density Graphite Electrode and Polyethylene Oxide/LiClO4	**Polymer** Electrolyte All-Solid-State Electric Double-Layer Capaci	12	3982
Overcharge Protection for Rechargeable Lithium	**Polymer** Electrolyte Batteries	12	3982
lective Electroless Nickel Deposition on Patterned Phosphonate and Carboxylate	**Polymer** Films Se	2	691
Platinization of Shapable Electroconductive	**Polymer** Film for an Improved Glucose Sensor	10	3336
Optimized Oxygen Plasma Etching of Polyurethane-Based Electro-optic	**Polymer** for Low Loss Optical Waveguide Fabrication	11	3648
Ion Determination of Improved Selectivity Coefficients of	**Polymer** Membrane Ion-Selective Electrodes by Conditioning with a Discriminated	4	L83
Planar Compatible	**Polymer** Technology for Packaging of Chemical Microsensors	6	2020
Effect of Methanol Crossover in a Liquid-Feed	**Polymer-Electrolyte** Direct Methanol Fuel Cell	8	2601
of Microstructure of Carbon Support in the Catalyst Layer on the Performance of	**Polymer-Electrolyte** Fuel Cells Effects	7	2245
Photoelectrochemical Energy Conversion at the Conjugated	**Polymer/Redox** Polymer Electrolyte Interface	7	2310
Selective Oxidation of Thiols to Disulfides at	**Polymeric** Cobalt Phthalocyanine Chemically Modified Electrodes	4	1283
Electrochemical	**Polymerization** of Aniline and Toluidine on RuO2-Coated Titanium Electrodes	12	4019
ues Electrochemistry of Conductive Polymers. XX. Early Stages of Aniline	**Polymerization** Studied by Spectroelectrochemical and Rotating Ring Disk Electro	4	1277
Electrochemical and Spectroelectrochemical Studies of Cobalt Phthalocyanine	**Polymers**	6	1800
Self-Developing Characteristics of Si Containing	**Polymers** and Their Application to X-Ray Lithography	2	657
Plasma Treatment Process for Palladium Chemisorption onto	**Polymers** before Electroless Deposition	2	472
Electrochemical Impedance Spectroscopy Electrochemistry of Conducting	**Polymers.** XIX. Oxidation of Aniline at Bare and Polyaniline-Modified Platinum Ele	4	1269
Rotating Ring Disk Electrode Techniques Electrochemistry of Conductive	**Polymers.** XX. Early Stages of Aniline Polymerization Studied by Spectroelectroch	4	1277
Intramolecular Energy Transfer and Mn4+ Luminescence in	**Polyoxometallomanganate** Lattices	5	1678
	Polypyrrole Composite Electrodes in an All-Polymer Battery System	3	936
Reduction of Hexavalent Chromium in Aqueous Solutions by	**Polypyrrole.** II. Thermodynamic, Kinetic, and Mechanistic Aspects	1	44
Effect of the Composition of	**Polypyrrole** Substrate on the Electrodeposition of Copper and Nickel	2	498
Thermal Model Validation for Rapid Thermal Chemical Vapor Deposition of	**Polysilicon**	1	374
Nano-Trenched Local Oxidation of Silicon Isolation Using Island	**Polysilicon** Grains	2	639
ed Amorphous Silicon Films Characteristics of Top-Gate	**Polysilicon** Thin-Film Transistors Fabricated on Fluorine-Implanted and Crystalliz	10	3382
Determination of Mixtures of	**Polysulfides** by Cyclic Voltammetry	10	L223
cation Optimized Oxygen Plasma Etching of	**Polyurethane-Based** Electro-optic Polymer for Low Loss Optical Waveguide Fabri	11	3648
In Situ Infrared Studies of	**Polyvinyl** Chloride Films Exposed to H2/O2/Ar Downstream Microwave Plasmas	9	2896
inear, Cross Linked, and Alkylated Electrolyte Films Study of the	**Poly[oxymethylene** oligo-(oxy-ethylene)]/Lithium Metal Interface. Comparison of L	4	1292
Impedance Study of Reinforcing Steel in Simulated	**Pore** Solution with Tannin	8	2488
Morphology and Strongly Enhanced Photoresponse of GaP Electrodes Made	**Porous** by Anodic Etching	1	305
A New Fuel Cell Electrocatalyst Based on Highly	**Porous** Carbonized Polyacrylonitrile Foam with Very Low Platinum Loading	1	L7
Application of	**Porous** Electrode Theory on Metal Hydride Electrodes in Alkaline Solution	2	435
A Three-Phase Homogeneous Model for	**Porous** Electrodes in Molten-Carbonate Fuel Cells	5	1617
Initiation and Formation of	**Porous** GaAs	10	3316
Greatly Enhanced Sub-Bandgap Photocurrent in	**Porous** GaP Photoanodes	3	1137
A Mathematical Model for a Thick	**Porous** Metal-Hydride Electrode in Discharge	12	3972
Electrode Kinetics of	**Porous** Mixed-Conducting Oxygen Electrodes	11	3854
	Porous Nickel Oxide/Nickel Films for Electrochemical Capacitors	1	124
Deformation Mechanism of	**Porous** Nickel Oxide in Molten Li/K Carbonates	8	2481
Surface Electronic Structures and Photoluminescence Mechanisms of	**Porous** Si	8	2502
gions Fabrication of a	**Porous** Silicon Diode Possessing Distinct Red and Orange Electroluminescent Re	2	L42
Light-Emitting	**Porous** Silicon from Cast Metallurgical-Grade Silicon	6	L115
Photoluminescence in the Earliest stages of	**Porous** Silicon Formation	8	L164
Deposition of Tin Oxide into	**Porous** Silicon by Atomic Layer Epitaxy	2	683
Electroluminescence of Heavily Doped p-Type	**Porous** Silicon under Electrochemical Oxidation in Galvanostatic Regime	3	1055
Surface Modification of	**Porous** Silicon by Aluminum Isopropoxide and Its Impact on Electroluminescence	4	1390
Multiple Source Quantum Well Model of	**Porous** Silicon Light Emission	4	1394
Electrical Properties of Thermally Oxidized	**Porous** Silicon	9	2972
Photoluminescence of	**Porous** Silicon in Air	11	3704
Mechanism of AC Electrical Transport of Carriers in Freshly Formed and Aged	**Porous** Silicon	12	3943
nd Utilization of Smooth Hydrogen-Evolving Raney Nickel Cathode Coatings and	**Porous** Sintered-Nickel Cathodes Morphology a	9	2852
Electro-optical Charge Trapping in Zinc	**Porphyrin** Films on Indium Tin Oxide and /SiO2/Si	6	1914
hysical and Electrochemical Characterization of Quaternary Li-Mn-V-O Spinel as	**Positive** Materials for Rechargeable Lithium Batteries P	3	1007
High-Performance	**Positive** Paste for Lead-Acid Batteries	9	2841
OS Capacitors with Oxidized Nitride Films of Different Nitride Thicknesses under	**Positive** Stress Bias Conduction and Charge-Trapping Characteristics of M	1	368
Fabrication of a Porous Silicon Diode	**Possessing** Distinct Red and Orange Electroluminescent Regions	2	L42
Identification	**Possibility** of Metallic Impurities in p-Type Silicon by Lifetime Measurement	1	216

		Issue	Page
tteries	**Possible** Cause of the Memory Effect Observed in Nickel-Cadmium Secondary Ba	10	L225
ubstrate	The Effect of **Post-Cure** Annealing on the Protective Properties of Polyimides on a Chromium S	10	3307
n by Electrodeposition	Effects of **Postdeposition** Heat-Treatment on Morphology and Microstructure of CdTe Grow	2	617
al Processing	Electrical Characteristics of **Postoxidation** Annealed Very Thin SiO2 Films. Potential Benefits of Rapid Therm	1	358
Electrical Characteristics of Postoxidation Annealed Very Thin SiO2 Films.	**Potential** Benefits of Rapid Thermal Processing	1	358
	Potential Distribution in Semiconductor Particles	6	L131
mium Vapor Species over Solid Oxide Fuel Cell Interconnect Materials and Their	**Potential** for Degradation Processes Chro	11	3642
Mixed	**Potential** Hydrogen Sensor Combining Oxide Ion Conductor with Oxide Electrode	7	L164
Influence of the Initial Electrochemical	**Potential** on the Growth Mechanism and Properties of Anodic Oxides on (100) Si	9	2931
Oxidation of n-InP and Indium in the Negative	**Potential** Region at pH 5	2	524
ctrodes in Acid Aqueous Solutions Resulting from a Prolonged Application of the	**Potential** Reversal Technique Topographic Changes of Polycrystalline Ag	7	2294
Critical Analysis of	**Potential** Step Data for Oxygen Transport in Electronically Conducting Perovskites	11	3497
Mixed	**Potential** Type NOx Sensor Based on Stabilized Zirconia and Oxide Electrode	2	L33
hotoelectrochemically Etched	**Potential-Induced** Changes in the Surface Morphology of (100) n-InP Samples P	9	2815
Dissolution Windows for Wet Chemical Processing of Silicon and Silicon Dioxide:	**Potential-pH** Diagrams for the Si-F-H2O System	2	749
Response Time of Thin-Layer Electrolytic Cells to	**Potential-Step** Signals	12	4006
Corrosion of Tin Oxide at Anodic	**Potentials**	2	442
Generation of Si-SiO2 Interface States at Surface	**Potentials** near 0.4 and 0.7 eV	11	3757
Anomalous Oxidation Reactions at Noble Metal Surfaces at Low	**Potentials**: With Particular Reference to Palladium	3	845
Oxidation Kinetics of Water and Organic Compounds by Silver (II) Using a	**Potentiometric** Method	6	1860
uoric Acid	A New **Potentiometric** Sensor for the Detection of Trace Metallic Contaminants in Hydrofl	10	L235
Anomalous Codeposition of Fe-Ni Alloys and Fe-Ni-SiO2 Composites under	**Potentiostatic** Conditions. Experimental Study and Mathematical Model	7	2184
Preparation of Lead-Zirconium-Titanium Film and	**Powder** by Electrodeposition	1	97
Synthesis and Low-Voltage Characteristics of CaTiO3:Pr Luminescent	**Powders**	10	L231
cyanide/Ferrocyanide Thermogalvanic Cell	**Power** Conversion Efficiency, Electrode Separation, and Overpotential in the Ferri	8	2558
High-Resolution Measurement of Resistivity Variations in	**Power** Devices by the Photoscanning Method	12	4105
Effect of Anodic Concentration Overvoltage on	**Power** Generation Characteristics of Solid Oxide Fuel Cells	11	3899
Styrene/Argon Discharge	Effects of RF **Power** on Plasma Phase Reactions and Film Structure in Deposition of a-C:H by	4	1451
Interpretation of the	**Power** Response of a Fuel Cell with a Quadratic Logistic Differential Equation	6	L113
Plasma Etching Endpointing by Monitoring Radio-Frequency	**Power** Systems with an Artificial Neural Network	6	2029
Photon Cascade Luminescence of	**Pr3+** in LaMgB5O10	12	4113
Computer Simulation of Oxygen	**Precipitation** in Czochralski-Grown Silicon during HI-LO-HI Anneals	3	995
tion Procedure to Obtain CuInSe2 Thin Films from Sequentially Electrodeposited	**Precursors** Improved Seleniza	2	493
	Predictions from the Macrohomogeneous Model of an Aerospace Ni-Cd Battery	3	803
Structural Model Effects on the	**Predictions** of Chemical Vapor Infiltration Models	6	1962
actions Computational Chemistry	**Predictions** of Kinetics and Major Reaction Pathways for Germane Gas-Phase Re	8	2648
Comparison of Modeling	**Predictions** with Experimental Data from Plastic Lithium-Ion Cells	6	1890
A	**Predictive** Kinetic Model for the Chemical Vapor Deposition of TiSi2	5	1726
The Effect of	**Preheating** Treatment on Anodic Al2O3 Formed on Sputtered Al Thin Films	3	984
Gel Process	**Preparation** and Characterization of Fine-Grain Yttrium-Based Phosphors by Sol-	1	189
4	**Preparation** and Electrochemical Characterization of Micron-Sized Spinel LiMn2O	5	1591
per Sulfate Solutions Importance of Surface	**Preparation** in Electrochemical Investigations of the Copper System in Dilute Cop	12	3910
e Presence of Alkynes A New	**Preparation** of Alpha-Oxo-Thioesters by Electro-oxidation of Diaryl Disulfides in th	12	4027
	Preparation of Lead-Zirconium-Titanium Film and Powder by Electrodeposition	1	97
Atmospheric Corrosion of Aluminum in the	**Presence** of Ammonium Sulfate Particles	4	1178
Atmospheric Corrosion of Zinc in the	**Presence** of Ammonium Sulfate Particles	5	1539
reparation of Alpha-Oxo-Thioesters by Electro-oxidation of Diaryl Disulfides in the	**Presence** of Alkynes A New P	12	4027
cal Formalism In Situ Spectroscopy in the	**Presence** of Convective Flow under Steady-State Conditions: A Unified Mathemati	11	3539
Electropolymerization of 1,4-bis(Pyrrol-2-yl)benzene in the	**Presence** of the Easily Oxidized Electrolyte Sodium Tetraphenylborate	8	L161
ource Gases Low	**Pressure** Chemical Vapor Deposition of Si1-xGex Films Using Si2H6 and GeH4 S	1	363
o) Titanium and Ammonia Atmospheric	**Pressure** Chemical Vapor Deposition of Titanium Nitride from tetrakis(Diethylamid	2	736
Mesoscopic Scale Modeling of Microloading during Low	**Pressure** Chemical Vapor Deposition	8	2624
The Hydrogen Reduction of WF6: A Kinetic Study Based on In Situ Partial	**Pressure** Measurements	5	1668
erical Results Particle Size Distribution in a Low	**Pressure** SiH4:O2:He Chemical Vapor Deposition Reactor. Experimental and Num	10	3397
A Kinetic Study of Spike Peaks Observed under	**Pressurized** Oxidant Gas Atmospheres in Molten Alkali Carbonates	7	2315
ier Height Lowering and Instability of Gate Oxides Due to Dilute Hydrofluoric Acid	**Pretreatment** Barr	3	973
ay Photoelectron Spectroscopy Effects of Plasma Excitation and Chemical	**Pretreatment** on Adsorption of Tungsten Hexafluoride on Silicon and Silicon Dioxi	11	3670
The Use of a Double Mask System to	**Prevent** Ti Diffusion from a Ti/Pt/Au Ohmic Contact on Diamond	7	2392
Microcontact	**Printing** of Alkanethiols on Silver and Its Application in Microfabrication	3	1070
Characterization of Solid Oxide Fuel Cells by Use of an Internal Pt Voltage	**Probe**	5	1558
d Electrode Film	**Probe** Beam Deflection Combined with Cyclic Voltammetry Studies of C60-Modifie	12	3874
A Quartz Crystal Microbalance	**Probe** Developed for Outdoor In Situ Atmospheric Corrosivity Monitoring	3	839
Infrared Photothermal Deflection Spectroscopy: A New	**Probe** for the Investigation of Electrochemical Interfaces	5	1514
ursors Improved Selenization	**Procedure** to Obtain CuInSe2 Thin Films from Sequentially Electrodeposited Prec	2	493
The Effect of Mechanical Processing	**Procedures** on the Decomposition Rate of Silver Oxide Cathode Material	2	418
A Model for the Gas-Phase Chemistry Occurring in a Furnace N2O Oxynitride	**Process**	5	1753
sport in a New Li Intercalation Material Al0.11V2O5.15 Synthesized via a Sol-Gel	**Process** A Kinetic Study of Lithium Tran	7	2083
sor for the Determination of Ammonia in a Solid-State Cell Prepared by a Sol-Gel	**Process** Amperometric Gas-Phase Sen	6	L126
cal Studies of Spinel Phase LiMn2O4 Cathode Materials Prepared by the Pechini	**Process** Synthesis and Electrochemi	3	879
paration and Characterization of Fine-Grain Yttrium-Based Phosphors by Sol-Gel	**Process** Pre	1	189
Investigations on High-Temperature Thermal Oxidation	**Process** at Top and Bottom Interfaces of Top Silicon of SIMOX Wafers	1	244
chnique Contact Etching	**Process** Characterization by Using Angular X-Ray Photoelectron Spectroscopy Te	4	1347
A Novel	**Process** for Fabricating Conformal and Stable TiN-Based Barrier Films	12	L279
Microscale Dishing Effect in a Chemical Mechanical Planarization	**Process** for Trench Isolation	12	L281
Optimization of Low Damage, High Resolution Etch	**Process** for SiNx in an ECR Reactor	1	288
Plasma Treatment	**Process** for Palladium Chemisorption onto Polymers before Electroless Deposition	2	472
A Novel Plating	**Process** for Microencapsulating Metal Hydrides	8	2596
Effect of Mechanical Grinding on the Lithium Intercalation	**Process** in Graphites and Soft Carbons	12	3989
Analysis and Application of Hydrogen Supplying	**Process** in Metal-Oxide-Semiconductor Structures	11	3771
tics of Spinel Phase LiMn2O4-Based Cathode Materials Prepared by the Pechini	**Process.** Influence of Firing Temperature and Dopants Electrochemical Ch	11	3590
Study of the Redox	**Process** of Poly(5-amino-1-naphthol) Thin Film by In Situ Raman Spectroscopy	7	2116
Surface Evolution in a Pulsed Laser Induced Epitaxy	**Process** of Submicron SiGe Wires	8	2678
dynamic and Kinetic Studies	**Process-Property** Relationships in Si1-xGex Chemical Vapor Deposition. Thermo	5	1719
ated Energy of Electrode Surfaces: Temperature Jumps from Coupled Transport	**Processes** The Dissip	3	767
r Solid Oxide Fuel Cell Interconnect Materials and Their Potential for Degradation	**Processes** Chromium Vapor Species ove	11	3642
The Application of Atomic Force Microscopy for the Study of Li Deposition	**Processes**	11	3525
Reliability Evaluation of Manufacturing	**Processes** for Bipolar and MOS Devices on Silicon-on-Diamond Materials	4	1326
Modeling of Plated Through-Hole	**Processes.** I. Current Distribution	10	3139
Modeling of Plated Through-Hole	**Processes.** II. Effect of Leveling Agents on Current Distribution	10	3144
al Microbalance Study of Deposition and Dissolution	**Processes** of Lithium in Carbonate-Based Solutions by Means of the Quartz-Cryst	8	2617
Lithium Insertion	**Processes** of Orthorhombic NaxMnO2-Based Electrode Materials	8	2507
yer by Linear Sweep Voltammetry Kinetics of Oxidation	**Processes** on Lead Electrode in H2SO4. III. A Study of the Growth of the PbO La	4	1157
e Salts Electrochemical Oxidation	**Processes** on Ni Electrodes in Propylene Carbonate Containing Various Electrolyt	8	2548
Mechanism of the Elementary Electrochemical	**Processes** Taking Place during Oxygen Evolution on the Lead Dioxide Electrode	11	3816
ostoxidation Annealed Very Thin SiO2 Films. Potential Benefits of Rapid Thermal	**Processing** Electrical Characteristics of P	1	358
Confinement Phenomena in Buried Oxides of SIMOX Structures as Affected by	**Processing**	2	695
he Effect of Multilayer Patterns on Temperature Uniformity during Rapid Thermal	**Processing** T	3	1142
Is Ti Contamination in Si Wafer	**Processing** an Issue?	7	2353
Formation of Shallow Junctions during Rapid Thermal	**Processing** from Electron-Beam Deposited Boron Sources	9	2981
Colloidal	**Processing** of BaCeO3-Based Electrolyte Films	10	3239
O System Dissolution Windows for Wet Chemical	**Processing** of Silicon and Silicon Dioxide: Potential-pH Diagrams for the Si-F-H2	2	749
on	**Processing** of Three-Dimensional Microstructures Using Macroporous n-Type Silic	1	385

		Issue	Page
rial	The Effect of Mechanical **Processing** Procedures on the Decomposition Rate of Silver Oxide Cathode Mate	2	418
	A Systematic Approach to Simulating Rapid Thermal **Processing** Systems	6	2036
	Ultrathin Silicon Nitride Films Fabricated by Single-Wafer **Processing** Using SiH2Cl2-NH3-H2 System and In Situ H2 Cleaning	4	1459
cal Reaction Cell	Methacrolein **Production** from iso-Butane Using a Au/Yttria-Stabilized Zirconia/Ag Electrochemi	11	L249
sonant Plasmas	**Profile** and Morphology Control during Etching of SiC Using Electron Cyclotron Re	8	2620
	Etching **Profiles** and Neutral Shadowing in Long Trenches	2	672
	Auger Electron Spectroscopy Element **Profiles** and Interface with Substrates of Electroless Deposited Ternary Alloys	11	3892
	Effect of Transport Phenomena on Boron Concentration **Profiles** in Silicon Epitaxial Wafers	2	677
	Dopant Depth **Profiling** by Anodic Sectioning Using 0.1 M HCl Electrolyte	11	L256
	Polycrystalline Ag and Cu Electrodes in Acid Aqueous Solutions Resulting from a **Prolonged** Application of the Potential Reversal Technique Topographic C	7	2294
	Ethylmethylcarbonate, a **Promising** Solvent for Li-Ion Rechargeable Batteries	12	L273
n	**Promoting** Effect of Sodium Dodecyl Sulfate on the Redox Reaction of Hemoglobi	2	L24
	Nature of Sensitivity **Promotion** in Pd-Loaded SnO2 Gas Sensor	7	L148
ctrolyte	Selective Oxidation of **Propene** Using an Electrochemical Membrane Reactor with CeO2-Based Solid Ele	4	1264
o/Ti Bilayer on Oxide Patterned (100)Si Substrate and Its Effect on the Electrical	**Properties** Defect Generation during Epitaxial CoSi2 Formation Using C	3	L58
	Effect of BCl3 Dry Etching on InAlN Surface **Properties**	9	L217
iO2 (Anatase) Electrodes: Surface Morphology, Adsorption, and Electrochemical	**Properties** Nanocrystalline T	2	394
	Electrical Transport **Properties** and Defect Structure of SrFeCo0.5Ox	5	1736
	Relation Between Physical **Properties** and Deposition Conditions of Electrodeposited CuInSe2	7	2173
idate for the Solid Oxide Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Transport	**Properties** and Defect Structure A New Cand	9	2863
of Ni, Fe, Cu, and Cr Substitutions for Co in La0.8Sr0.2CoO3 on Electrocatalytic	**Properties** for Oxygen Evolution Effects	5	1606
Nonstoichiometry of Sintered Oxide Ca0.9La0.1MnO3-delta and Its Cathodic	**Properties** in Alkaline Solutions	2	867
p- and n-Type Silicon Electrochemical	**Properties** in Dilute Hydrofluoric Acid Solutions	11	3832
e Synthesis, Structure, and Electrochemical	**Properties** of a New Lithium Iron Oxide, LiFeO2, with a Corrugated Layer Structur	8	2436
Influence of the Initial Electrochemical Potential on the Growth Mechanism and	**Properties** of Anodic Oxides on (100) Si	9	2931
Surface Exchange	**Properties** of Ce0.9Gd0.1O2-x Coated with La1-xSrxFeyCo1-yO3-delta	10	L229
Electrochromic	**Properties** of Cobalt Oxide Thin Films Prepared by Chemical Vapor Deposition	4	1383
e Fuel Cells	Electrocatalytic **Properties** of Co, Pt, and Pt-Co on Carbon for the Reduction of Oxygen in Alkalin	7	2152
el Cells	Electrochemical **Properties** of Doped Lanthanum Chromites as Interconnectors for Solid Oxide Fu	5	1583
ayer Dielectrics in Multilevel Interconnections	**Properties** of Fluorinated Silicon Oxide Films Using Fluorotriethoxysilane for Interl	3	1084
ettering	Microstructural **Properties** of Helium Implanted Void Layers in Silicon as Related to Front-Side G	2	725
Electrochromic	**Properties** of Iron Oxide Thin Films Prepared by Chemical Vapor Deposition	5	1675
Effect of Interfacial Resistance on Determination of Transport	**Properties** of Mixed-Conducting Electrolytes	6	L109
inium Iodide Structure, 1H NMR Spectra, Thermodynamics, and Transport	**Properties** of Molten Salt Solutions. I. 4-Methylpyridinium Chloride and 4-Methylpy	1	183
Ba, Ca) Electrochemical	**Properties** of Mixed Conducting Perovskites La1-xMxCo1-yFeyO3-delta (M = Sr,	9	2722
The Hydrogen Storage	**Properties** of New Mg2Ni Alloy	9	L198
tial Dissociation and Hydration. Quantitative Interpretation of the Thermodynamic	**Properties** of NaCl(aq) from "Zero to Saturation" Physical Electrochemistry	6	1789
Microstructural Effects on Conduction	**Properties** of Na5YSi4O12-Type Glass-Ceramic Na+-Fast Ionic Conductors	7	2180
and Recombination Impedance Electrical	**Properties** of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. I. Interface States	8	2531
ated Photocurrent Spectroscopy Electrical	**Properties** of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. II. Intensity Modul	8	2538
Creation and	**Properties** of Nitrogen Dangling Bond Defects in Silicon Nitride Thin Films	11	3685
All-Solid-State Measurements of Electrical	**Properties** of Passive Films on Lithium	5	1690
The Effect of Post-Cure Annealing on the Protective	**Properties** of Polyimides on a Chromium Substrate	10	3307
Physicochemical	**Properties** of SnO2-Sb2O5 Films Prepared by the Spray Pyrolysis Technique	1	203
Effect of Electrochemical Polarization on Optical	**Properties** of Sputter-Prepared Tin Nitride in Aqueous Electrolyte	1	326
Operating	**Properties** of Solid Oxide Fuel Cells Using BaCe0.8Gd0.2O3-Alpha Electrolyte	6	1886
Impact of the Electrochemical	**Properties** of Silicon Wafer Surfaces on Copper Outplating from HF Solutions	10	3323
Structure and Lithium Intercalation	**Properties** of Synthetic and Natural Graphite	11	3486
Thermally Stable Lithium Salts for Lithium Battery Electrolytes. III. Synthesis and	**Properties** of Some Lithium Organoborates A New Class of Electrochemic	11	3572
Formation Mechanism and Anticorrosive	**Properties** of Thin Siloxane Films on Metal Surfaces	1	251
Metal Hydride Batteries Studies of Electrochemical	**Properties** of Ti0.35Zr0.65NixV2-x-yMny Alloys with C14 Laves Phase for Nickel/	2	429
Electrical	**Properties** of Thermally Oxidized Porous Silicon	9	2972
Thermodynamic	**Properties** of U, Np, Pu, and Am in Molten LiCl-KCl Eutectic and Liquid Cadmium	8	2487
is	**Properties** of Zinc Telluride Containing Impurities Introduced during Spray Pyrolys	12	4064
fluence of Cooling Condition during Crystal Growth of CZ-Si on Oxide Breakdown	**Property** In	10	3383
Physical	**Property** Change of FeOOH(AD)1/4 during Lithium Insertion and Extraction	9	2713
Solutions of Lithium tris(Trifluoromethanesulfonyl) Methide in Water, Acetonitrile,	**Propylene** Carbonate, N,N-Dimethylformamide, and Nitromethane at 25 C	1	154
Ionic Radius of (CF3SO2)3C- and Applicability of Stokes Law to Its	**Propylene** Carbonate Solution	11	L270
Electrochemical Oxidation Processes on Ni Electrodes in	**Propylene** Carbonate Containing Various Electrolyte Salts	8	2548
ry Electrolytes. II. Conductivity of Lithium Organoborates in Dimethoxyethane and	**Propylene** Carbonate A New Class of Electrochemically and Thermally Sta	11	3565
A Novel Seed Layer Scheme to	**Protect** Catalytic Surfaces for Electroless Deposition	11	3512
Overcharge	**Protection** for Rechargeable Lithium Polymer Electrolyte Batteries	12	3992
Disk-Electrode Methods Studies of the Formation of Cerium-Rich	**Protective** Films Using X-Ray Absorption Near-Edge Spectroscopy and Rotating-	1	147
The Effect of Post-Cure Annealing on the	**Protective** Properties of Polyimides on a Chromium Substrate	10	3307
ments Thermal Stability of	**Proton** Conducting Acid Doped Polybenzimidazole in Simulated Fuel Cell Environ	4	1225
e Method	**Proton** Conductivity of Nafion 117 as Measured by a Four-Electrode AC Impedanc	4	1254
Microelectrode Investigation of Oxygen Permeation in Perfluorinated	**Proton** Exchange Membranes with Different Equivalent Weights	3	927
Performance Data of a	**Proton** Exchange Membrane Fuel Cell Using H2/CO as Fuel Gas	12	3838
	Proton Insertion into Ruthenium Oxide Film Prepared by Pulsed Laser Deposition	3	1068
mbrane Containing Sulfonic Acid Group Prepared by RIGP	**Proton** Transport Through Polyethylene-Tetrafluoroethylene-Copolymer-Based Me	9	2795
A Hydrogen Sulfide Fuel Cell Using a	**Proton-Conducting** Solid Electrolyte	3	L55
A Gas Distributor for	**Proton-Exchange-Membrane** Fuel Cells	5	L103
Characterization of	**Proton-Induced** Color Transition in an Amorphous Tungsten Oxide Film	7	2341
	Protrusion Formation at the Edges of Ion Implanted Regions	6	L118
Photoimage Formation in a TiO2 Particle-Incorporated	**Prussian** Blue Film	11	3482
Hydrogen Electrocatalysis by Carbon Supported Pt and	Pt Alloys. An In Situ X-Ray Absorption Study	7	2285
Electrocatalytic Properties of Co,	Pt, and Pt-Co on Carbon for the Reduction of Oxygen in Alkaline Fuel Cells	7	2152
Hydrogen Electrocatalysis by Carbon Supported	Pt and Pt Alloys. An In Situ X-Ray Absorption Study	7	2285
Reaction in Alkaline Solution Catalytic Influence of Pt Supported on Graphite vs.	Pt Inclusions in Graphite Hydrogen Evolution	3	919
Hydrogen Evolution Reaction in Alkaline Solution Catalytic Influence of	Pt Supported on Graphite vs. Pt Inclusions in Graphite	3	919
Characterization of Solid Oxide Fuel Cells by Use of an Internal	Pt Voltage Probe	5	1588
Effect of Platinum Particle Size on the Oxygen Reduction Reaction on 2%	Pt-1% H2WO4 in Phosphoric Acid	6	1814
Electrocatalytic Properties of Co, Pt, and	Pt-Co on Carbon for the Reduction of Oxygen in Alkaline Fuel Cells	7	2152
Methanol Electro-oxidation on Unsupported	Pt-Ru Alloys at Different Temperatures	5	1685
of the Electrochemical Characteristics of a Direct Methanol Fuel Cell Based on a	Pt-Ru/C Anode Catalyst Analysis	12	3950
AC Impedance Analysis for Li+ Insertion of a	Pt/Lambda-MnO2 Electrode in an Aqueous Phase	8	2610
Effect of Nafion Dispersion on the Stability of	Pt/WO3 Electrodes	9	2703
Thermodynamic Properties of U, Np,	Pu, and Am in Molten LiCl-KCl Eutectic and Liquid Cadmium	8	2487
Current Distribution and Current Efficiency in	**Pulsed** Current Plating of Nickel	9	2770
	Pulsed Electroreduction of CO2 on Silver Electrodes	2	582
Proton Insertion into Ruthenium Oxide Film Prepared by	**Pulsed** Laser Deposition	3	1068
Electrochemical Behavior of LiMn2O4 and LiCoO2 Thin Films Produced with	**Pulsed** Laser Deposition	6	1821
Surface Evolution in a	**Pulsed** Laser Induced Epitaxy Process of Submicron SiGe Wires	8	2678
New Method of	**Purification** of HF Chemicals for Very Large Scale Integration Manufacturing	12	4119
fine Pigment Color Filters on Cathode Ray Tube Brightness, Contrast, and Color	**Purity** The Effect of Ultra	3	1063
Galvanic Interaction Between Manganese Dioxide and	**Pyrite**	12	3987
Semiconductor Electrochemistry of Particulate	**Pyrite**: Dissolution via Hole and Electron Pathways	10	3192
Fabrication of Anatase Thin Films from Peroxo-Polytitanic Acid by Spray	**Pyrolysis**	9	L191
In Situ Formation of Coated and Composite Palladium Particles via Spray	**Pyrolysis**	11	3762
Properties of Zinc Telluride Containing Impurities Introduced during Spray	**Pyrolysis**	12	4064
	Pyrolysis Mechanism of Silanes, Difluorosilane, and Their Mixtures	6	1996
Optimizing	**Pyrolysis** of Sugar Carbons for Use as Anode Materials in Lithium-Ion Batteries	10	3048

		Issue	Page
Physicochemical Properties of SnO2-Sb2O5 Films Prepared by the Spray	**Pyrolysis** Technique	1	203

— Q —

Interpretation of the Power Response of a Fuel Cell with a	**Quadratic** Logistic Differential Equation	6	L113
In Situ X-Ray Absorption Near-Edge Structure Evidence for	**Quadrivalent** Nickel in Nickel Battery Electrodes	5	1613
Wet Chemical Etching of High	**Quality** V-Grooves with {111} A Sidewalls on (001) InP	10	3271
ctrochemistry of Strong Electrolytes Based on Partial Dissociation and Hydration.	**Quantitative** Interpretation of the Thermodynamic Properties of NaCl(aq) from "Ze	6	1789
Multiple Source	**Quantum** Well Model of Porous Silicon Light Emission	4	1394
ctrolytes In Situ	**Quartz** Crystal Microbalance Studies of Nickel Hydrous Oxide Films in Alkaline Ele	1	37
Studies of Metal Hydride Electrodes Using an Electrochemical	**Quartz** Crystal Microbalance	1	120
rrosivity Monitoring A	**Quartz** Crystal Microbalance Probe Developed for Outdoor In Situ Atmospheric Co	3	839
tion by Laser Illumination Electrochemical	**Quartz** Crystal Microgravimetry Study of Zinc Electrode Behavior in a Neutral Solu	5	1525
Response of the Electrochemical	**Quartz** Crystal Microbalance for Gold Electrodes in the Double-Layer Region	7	2240
Diasolution Processes of Lithium in Carbonate-Based Solutions by Means of the	**Quartz-Crystal** Microbalance Study of Deposition and	8	2517
Chemical Sensitivity of the Thickness-Shear-Mode	**Quartz-Resonator** Nanobalance	9	2835
Room Temperature Inorganic	**"Quasi-Molten Salts"** as Alkali-Metal Electrolytes	11	3648
Electrochemical Behavior of	**Quasi-Spherical** Beta-Ni(OH)2 Particles Studied by Raman Spectroscopy	8	2447
eries Physical and Electrochemical Characterization of	**Quaternary** Li-Mn-V-O Spinel as Positive Materials for Rechargeable Lithium Batt	3	1007

— R —

Si Wafer Etching with Synchrotron	**Radiation** in a CF4 Gas Atmosphere	11	3754
Identification of MOS Gate Dielectric Breakdown Spot Using High Selectivity C1	**Radical** Etching Technique	8	2691
Fluorine-Doped Tin Dioxide Thin Films Prepared by	**Radio-Frequency** Magnetron Sputtering	1	283
Thin Films of Amorphous Germanium-Carbon Alloy Prepared by	**Radio-Frequency** Magnetron Sputtering	12	4067
Plasma Etching Endpointing by Monitoring	**Radio-Frequency** Power Systems with an Artificial Neural Network	6	2029
terials Application of Neutron	**Radiography** to Visualize the Motion of Lithium Ions in Lithium Ion Conducting Ma	6	1866
e Solution Ionic	**Radius** of (CF3SO2)3C- and Applicability of Stokes Law to Its Propylene Carbonat	11	L270
Study of the Redox Process of Poly(5-amino-1-naphthol) Thin Film by In Situ	**Raman** Spectroscopy	7	2116
bonate Solution Surface-Enhanced	**Raman** Spectroelectrochemical Studies of Corrosion Films on Iron in Aqueous Car	7	2146
Electrochemical Behavior of Quasi-Spherical Beta-Ni(OH)2 Particles Studied by	**Raman** Spectroscopy	8	2447
eat-Treated at Various Temperatures In Situ	**Raman** Study of Electrochemical Lithium Insertion into Mesocarbon Microbeads H	8	2572
A Dislocation Formation Model of Trench-Induced Dislocations in Dynamic	**Random** Access Memories	1	210
Morphology and Utilization of Smooth Hydrogen-Evolving	**Raney** Nickel Cathode Coatings and Porous Sintered-Nickel Cathodes	9	2852
on Cyclotron Resonance Plasma	**Rapid** Thermal Annealing Behavior of Amorphous SiC Layers Deposited by Electr	1	271
racteristics of Postoxidation Annealed Very Thin SiO2 Films. Potential Benefits of	**Rapid** Thermal Processing Electrical Cha	1	356
Thermal Model Validation for	**Rapid** Thermal Chemical Vapor Deposition of Polysilicon	1	374
s Silicon Nucleation and Film Evolution on Silicon Dioxide Using Disilane.	**Rapid** Thermal Chemical Vapor Deposition of Very Smooth Silicon at High Deposi	2	649
A 0.25 um MOSFET Technology Using In Situ	**Rapid** Thermal Gate Dielectrics	2	744
The Effect of Multilayer Patterns on Temperature Uniformity during	**Rapid** Thermal Processing	3	1142
A Systematic Approach to Simulating	**Rapid** Thermal Processing Systems	6	2035
Formation of Shallow Junctions during	**Rapid** Thermal Processing from Electron-Beam Deposited Boron Sources	9	2981
Catalytic Activities of	**Rare-Earth** Manganites for Cathodic Reduction of Oxygen in Alkaline Solution	11	L266
The Effect of Mechanical Processing Procedures on the Decomposition	**Rate** of Silver Oxide Cathode Material	2	418
Enhanced Etching	**Rate** of Silicon in Fluoride Containing Solutions at pH 6.4	8	2683
id Thermal Chemical Vapor Deposition of Very Smooth Silicon at High Deposition	**Rates** Silicon Nucleation and Film Evolution on Silicon Dioxide Using Disila	2	649
Extremely High Etch	**Rates** of In-Based III-V Semiconductors in BCl3/N2 Based Plasma	10	3394
High Aspect	**Ratio** Microtunnel Technique to Empirically Model Electroless Deposition	4	L78
Characterization of High Oxygen: Tetraethylorthosilicate	**Ratio** Plasma-Enhanced Chemical Vapor Deposited Films	3	1079
Interpretation of the	**Rationale** for Feed Modification in SCWO Systems	3	L59
The Effect of Ultrafine Pigment Color Filters on Cathode	**Ray** Tube Brightness, Contrast, and Color Purity	3	1063
Energetic Characterizations of Particulate	**RbPb2Nb3O10** Electrodes	5	1492
	RCA Clean Replacement	6	2064
Infrared Spectroscopy Study of Chemical Oxides Formed by a Sequence of	**RCA** Standard Cleaning Treatments	9	2995
Couple. Role of Nucleation and Nonideality for a Square Scheme Surface Redox	**Reaction** Cyclic Voltammetry of a TCNQ(O/-1) Solid-State Redox	10	3039
Micropattern Formation on ZnO Films Using a Photodissolution	**Reaction**	11	3743
tmospheres A Chemical Diffusion-Controlled Electrode	**Reaction** at the Compact La1-xSrxMnO3/Stabilized Zirconia Interface in Oxygen A	10	3065
Kinetics of the Hydrogen Evolution	**Reaction** at Various Zr-Based Laves-Phase Hydrogen-Storage Alloy Electrodes	8	2527
duction from iso-Butane Using a Au/Yttria-Stabilized Zirconia/Ag Electrochemical	**Reaction Cell** Methacrolein Pro	11	L249
Pt Inclusions in Graphite Hydrogen Evolution	**Reaction** in Alkaline Solution Catalytic Influence of Pt Supported on Graphite vs.	3	919
Oxide Thin Films	**Reaction** of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione (H+hfac) with Iron and Iron	10	3257
gen The	**Reaction** of Clean Li Surfaces with Small Molecules in Ultrahigh Vacuum. I. Dioxy	2	422
Promoting Effect of Sodium Dodecyl Sulfate on the Redox	**Reaction** of Hemoglobin	2	L24
Effect of Platinum Particle Size on the Oxygen Reduction	**Reaction** on 2% Pt-1% H2WO4 in Phosphoric Acid	6	1814
An Impedance Study of the Kinetics and Mechanism of the Anodic	**Reaction** on Graphite Anodes in Saturated Cryolite-Alumina Melts	6	1840
nce Study Kinetics of the Hydrogen Evolution	**Reaction** on RuO2 and IrO2 Oxide Electrodes in H2SO4 Solution: An AC Impeda	11	3678
Computational Chemistry Predictions of Kinetics and Major	**Reaction** Pathways for Germane Gas-Phase Reactions	8	2648
The Combined Influence of Interfacial	**Reaction** Resistance and Fluid Flow on Microelectrode Sensors	7	2252
ing of Valve-Regulated Lead-Acid Batteries: A Balancing Act Between Secondary	**Reactions** Float Charg	3	790
try Predictions of Kinetics and Major Reaction Pathways for Germane Gas-Phase	**Reactions** Computational Chemis	8	2648
Effects of RF Power on Plasma Phase	**Reactions** and Film Structure in Deposition of a-C:H by Styrene/Argon Discharge	4	1451
o Palladium Anomalous Oxidation	**Reactions** at Noble Metal Surfaces at Low Potentials: With Particular Reference t	3	845
The Role of Metal Hydrides in Electrode	**Reactions** on Metal Oxide Semiconductors	10	3273
The Influence of Side	**Reactions** on the Performance of Electrochemical Double-Layer Capacitors	6	1808
Electrocatalysis of Anodic Oxygen-Transfer	**Reactions**: Oxidation of Cr(III) to Cr(VI) at Bi(V)-Doped PbO2-Film Electrodes	7	2119
g-Pb Eutectic Alloy Electrodes Electrocatalysis of Anodic Oxygen-Transfer	**Reactions**. Temperature Effects on Oxidation of Ethylamine, Alanine, and Ammon	8	2543
e Fabrication	**Reactive** Ion Etching of 6H-SiC in SF6/O2 and CF4/O2 with N2 Additive for Devic	3	1037
Investigation of Polyimide Residue Due to	**Reactive** Ion Etching in O2	4	1464
Etching of 6H-SiC and 4H-SiC Using NF3 in a	**Reactive** Ion Etching System	5	1750
Fine-line Patterning of Parylene-n by	**Reactive** Ion Etching for Application as an Interlayer Dielectric	6	1974
Impact of	**Reactive** Ion Etching Induced Carbon Contamination on Oxidation of Silicon	7	2378
Patterning of Benzocyclobutene by	**Reactive** Ion Etching	8	2695
	Reactive Ion Etching of Copper Films in an SiCl4, N2, Cl2, and NH3 Mixture	12	4089
	Reactivity of Lithium Intercalated into Petroleum Coke with Carbonate Electrolytes	2	391
Modeling and Analysis of a New Multiwafer Hot Wall Phosphorus Doping	**Reactor**	4	1362
Optimization of Low Damage, High Resolution Etch Process for SiNx in an ECR	**Reactor**	1	288
rticle Size Distribution in a Low Pressure SiH4:O2:He Chemical Vapor Deposition	**Reactor**: Experimental and Numerical Results Pa	10	3397
Design and Performance of a New	**Reactor** for Vapor Phase Epitaxy of 3C, 6H, and 4H SiC	9	2910
de Batch	**Reactor** Kinetic Studies of Tungsten LPCVD from Silane and Tungsten Hexafluori	1	296
Selective Oxidation of Propene Using an Electrochemical Membrane	**Reactor** with CeO2-Based Solid Electrolyte	4	1264
Formic Acid Oxidation in a Polymer Electrolyte Fuel Cell. A	**Real-Time** Mass-Spectrometry Study	7	L158
nol Fuel Cell	**Real-Time** Mass Spectrometric Study of the Methanol Crossover in a Direct Metha	4	1233
m Salts in Nonaqueous Solutions The Synthesis of a New Family of Anion	**Receptors** and the Studies of Their Effect on Ion Pair Dissociation and Conductivi	12	3825
	Rechargeable 3 V Li Cells Using Hydrated Lamellar Manganese Oxide	11	3429
Improvements of the	**Rechargeable** Alkaline MnO2-Zn Cell	1	13
Ethylmethylcarbonate, a Promising Solvent for Li-Ion	**Rechargeable Batteries**	12	L273
Safety and Performance of Tadiran TLR-7103	**Rechargeable Batteries**	7	2110
An Organosulfur Polymer Cathode with a High Current Capability for	**Rechargeable Batteries**	10	3152
A Polymer Electrolyte-Based	**Rechargeable** Lithium/Oxygen Battery	1	1
ew Class of Advanced Polymer Electrolytes and Their Relevance in Plastic-Like,	**Rechargeable** Lithium Batteries A N	1	6
A High-Rate Carbon Electrode for	**Rechargeable** Lithium-Ion Batteries	3	L84

		Issue	Page
The Spinel Phases LiMyMn2-yO4 (M = Co, Cr, Ni) as the Cathode for	**Rechargeable** Lithium Batteries	1	178
Inorganic Electrolyte Solutions and Gels for	**Rechargeable** Lithium Batteries	9	L209
emical Characterization of Quaternary Li-Mn-V-O Spinel as Positive Materials for	**Rechargeable** Lithium Batteries Physical and Electroch	3	1007
Characterization of Thin-Film	**Rechargeable** Lithium Batteries with Lithium Cobalt Oxide Cathodes	10	3203
Overcharge Protection for	**Rechargeable** Lithium Polymer Electrolyte Batteries	12	3992
A Novel Electrolyte Solvent for	**Rechargeable** Lithium and Lithium-Ion Batteries	12	4047
Fabrication of Thin Film LiCo0.5Ni0.5O2 Cathode for Li	**Rechargeable** Microbattery	11	L208
erties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. I. Interface States and	**Recombination** Impedance Electrical Prop	8	2531
Interpretation of Carrier	**Recombination** Lifetime and Diffusion Length Measurements in Silicon	4	1399
On Semiconductor Surface Evaluation Using the Effective Surface	**Recombination** Speed for Schottky-Coupled Photovoltage Measurements	6	1958
n Electrolytic Membrane	**Recovery** of Bromine from Waste Gas-Phase Hydrogen Bromide Streams Using a	9	L184
Fabrication of a Porous Silicon Diode Possessing Distinct	**Red** and Orange Electroluminescent Regions	2	L42
Thermal Stability of Concentrated V(V) Electrolytes in the Vanadium	**Redox** Cell	4	L86
Melts The	**Redox** Chemistry of Niobium(V) Fluoro and Oxofluoro Complexes in LiF-NaF-KF	6	1793
racteristics of Thermochargeable Galvanic Cells with an [Fe(CN)6]4-/[Fe(CN)6]3-	**Redox** Couple Charge and Discharge Cha	4	1305
Redox Reaction Cyclic Voltammetry of a TCNQ(O/-1) Solid-State	**Redox** Couple. Role of Nucleation and Nonideality for a Square Scheme Surface	10	3039
copy Study of the	**Redox** Process of Poly(5-amino-1-naphthol) Thin Film by In Situ Raman Spectros	7	2116
Promoting Effect of Sodium Dodecyl Sulfate on the	**Redox** Reaction of Hemoglobin	2	L24
Redox Couple. Role of Nucleation and Nonideality for a Square Scheme Surface	**Redox** Reaction Cyclic Voltammetry of a TCNQ(O/-1) Solid-State	10	3039
Copper Adhesion Electrochemically	**Reduced** Polycrystalline Tin Oxide Thin Films. Surface Analysis and Electroplated	6	2048
Modulation Spectroscopy of Subbandgap Light in	**Reduced** TiO2 Electrodes	11	3600
Computer-Aided Design A	**Reduced-Fluid** Dynamic Discharge Model for Applications in Technology-Oriented	6	1940
Meniscus Behavior of Metals and Oxides in Molten Carbonate under Oxidant and	**Reducing** Atmospheres. I. Contact Angle and Electrolyte Displacement	8	2442
Electronic Conduction Mechanism in Yttria-Stabilized Zirconia-Titania under	**Reducing** Atmospheres	11	3708
Kinetics of Oxygen	**Reduction** at IrO2-Coated Titanium Electrode in Alkaline Solution	5	1485
ment Stress	**Reduction** in Anodically Bonded Silicon and Borosilicate Glass by Thermal Treat	4	1409
Crystallite Size Effects of Carbon-Supported Platinum on Oxygen	**Reduction** in Liquid Acids	1	18
Diiododecane at Carbon Cathodes in Dimethylformamide Electrochemical	**Reduction** of 1,8-Dibromo- and 1,8-Diiodooctane and of 1,10-Dibromo- and 1,10-	12	3833
In Situ X-Ray Absorption Near-Edge Spectroscopic Study of the Cathodic	**Reduction** of Artificial Iron Oxide Passive Films	2	574
Competitive Pathways in the Electrochemical	**Reduction** of Citral	8	2452
Indirect Electrochemical	**Reduction** of Dispersed Indigo Dyestuff	8	2411
modynamic, Kinetic, and Mechanistic Aspects	**Reduction** of Hexavalent Chromium in Aqueous Solutions by Polypyrrole. II. Ther	1	44
Electrochemical	**Reduction** of Lucigenin on Mercury in Aqueous Media	7	2132
Catalytic Activities of Rare-Earth Manganites for Cathodic	**Reduction** of Oxygen in Alkaline Solution	11	L266
Electrocatalytic Properties of Co, Pt, and Pt-Co on Carbon for the	**Reduction** of Oxygen in Alkaline Fuel Cells	7	2182
nts The Hydrogen	**Reduction** of WF6: A Kinetic Study Based on In Situ Partial Pressure Measureme	5	1568
Effect of Platinum Particle Size on the Oxygen	**Reduction** Reaction on 2% Pt-1% H2WO4 in Phosphoric Acid	5	1814
ong Alkaline Solution Electrochemical	**Reductions** of Hg(II), Ruthenium-Nitrosyl Complex, Chromate, and Nitrate in a Str	12	3801
Horizontally	**Redundant**, Split-Gate a-Si:H Thin Film Transistors	8	2880
Nonphotosensitive, Vertically	**Redundant** Two-Channel a-Si:H Thin Film Transistor	4	1469
Silicon by Infrared Spectrophotometry Methodology for the Certification of	**Reference** Specimens for Determination of Oxygen Concentration in Semiconduct	1	258
s Oxidation Reactions at Noble Metal Surfaces at Low Potentials: With Particular	**Reference** to Palladium Anomalou	3	845
Cell In Situ FTIR-Diffuse	**Reflection** Spectroscopy of the Anode Surface in a Direct Methanol/Oxygen Fuel	2	L21
In Situ Fourier Transform Infrared-Diffuse	**Reflection** Spectroscopy of Direct Methanol Fuel Cell Anodes and Cathodes	10	3053
ow in a Channel-Type Electrochemical Cell as Applied to In Situ Attenuated Total	**Reflection-Infrared** Spectroscopy Theoretical Aspects of Laminar Fl	10	3160
Characteristics of Sputtered TiN/Ti/AlSiCu/TiON/Ti Interconnects with Aluminum	**Reflow** Electromigration	10	3297
ate Glass Gap Fill and Film	**Reflow** Capability of Subatmospheric Chemical Vapor Deposited Borophosphosilic	4	1414
Al-Ge	**Reflow** Sputtering for Submicron Contact Hole Filling	1	228
Investigation of Alkali Carbonate Transport Toward the Catalyst in Internal	**Reforming** MCFCs	10	3186
Oxide Fuel Cells Oxidation and Steam	**Reforming** of CH4 on Ni and Fe Anodes under Low Humidity Conditions in Solid	4	1161
ly Doped p-Type Porous Silicon under Electrochemical Oxidation in Galvanostatic	**Regime** Electroluminescence of Heavi	3	1055
ent Related to Annealing Induced Arsenic Accumulation in the Si/SiO2 Interface	**Region** Oxide Growth Enhancem	1	L15
trochemical Quartz Crystal Microbalance for Gold Electrodes in the Double-Layer	**Region** Response of the Elec	7	2240
Oxidation of n-InP and Indium in the Negative Potential	**Region** at pH 5	2	524
f a Porous Silicon Diode Possessing Distinct Red and Orange Electroluminescent	**Regions** Fabrication o	2	L42
Protrusion Formation at the Edges of Ion Implanted	**Regions**	6	L118
Oxide Growth Effects in Micron and Submicron Field	**Regions**. A Comparison Between Wet and Dry Oxidation	9	2953
Impedance Study of	**Reinforcing** Steel in Simulated Pore Solution with Tannin	8	2458
Differential Measurement of Nonlinear Electrical	**Relaxation** of Lithium Batteries	10	3148
A New Class of Advanced Polymer Electrolytes and Their	**Relevance** in Plastic-Like, Rechargeable Lithium Batteries	1	6
Electrochemistry of Chemical Vapor Deposited Tungsten Films with	**Relevance** to Chemical Mechanical Polishing	12	4095
n Silicon-on-Diamond Materials	**Reliability** Evaluation of Manufacturing Processes for Bipolar and MOS Devices o	4	1326
Toward a	**Reliable** Value for the Diffusion Coefficient of Cupric Ion in Aqueous Solution	4	1248
Optical Switching of Y-Hydride Thin Film Electrodes. A	**Remarkable** Electrochromic Phenomenon	10	3348
mperatures from Si2H6-H2-SiF4	**Remote** Plasma Enhanced Chemical Vapor Deposition of Silicon Films at Low Te	8	2540
olysis-Ionized Water Containing Ammonium Chloride	**Removal** of Metal and Organic Contaminants from Silicon Substrates Using Electr	5	1632
Using 13CO and 18O18O Tracers to Study the	**Removal** of Parts per Million CO and O2 from N2 over a Ni-Al2O3 Catalyst	8	2429
es Identification and	**Removal** of Trace Organic Contamination on Silicon Wafers Stored in Plastic Box	10	3279
s in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in Further Stages and in	**Reoxidation** Thermal Nitridation of SiO2 Film	9	2946
Oxidation	**Repair** of Plasma Etch Related Gate Perimeter Damage Using Low Temperature	2	629
nium Alloys in Aqueous Chloride Solutions On the	**Repassivation** Behavior of High-Purity Titanium and Selected A, B and B + A Tita	6	1947
	Repassivation of Pits in Aluminum Thin Films	6	1834
RCA Clean	**Replacement**	8	2064
	Report of the Electrolytic Industries for the Year 1995	10	3410
Distribution of	**Residual** Stresses in Boron Doped p+ Silicon Films	10	3389
Investigation of Polyimide	**Residue** Due to Reactive Ion Etching in O2	4	1484
tcher Characterization and	**Residue** Elimination of Hot Aluminum Etching in a Transformer Coupled Plasma E	5	1763
r Forming a Chromium-Rich Oxide on AISI 430 Stainless Steel and Its Corrosion	**Resistance** Determination of the Critical Temperature fo	8	2493
xide Fuel Cell Cathodes and Current Collectors. Cathodic Polarization and Ohmic	**Resistance** Microstructure-Property Relations of Solid O	2	530
The Combined Influence of Interfacial Reaction	**Resistance** and Fluid Flow on Microelectrode Sensors	7	2252
Roles of Cap-Metal on Via Electromigration	**Resistance** in Aluminum-Based Interconnections	3	1043
egrated Circuit Applications Moisture	**Resistance** in Annealed Borophosphosilicate Glass Films for Very Large Scale Int	9	3032
Monte Carlo Simulations of Polarization	**Resistance** of Composite Solid Oxide Fuel Cells for Electrodes	6	1930
Ohmic	**Resistance** of the Electrode-Electrolyte Interface in Au/YSZ Oxygen Electrodes	4	L82
lytes Effect of Interfacial	**Resistance** on Determination of Transport Properties of Mixed-Conducting Electro	6	L109
The Error Structure of Impedance Spectra for Systems with a Large Ohmic	**Resistance** with Respect to the Polarization Impedance	12	3880
Growth and	**Resistivity** Behavior of Copper Film by Chemical Vapor Deposition	2	624
High-Resolution Measurement of	**Resistivity** Variations in Power Devices by the Photoscanning Method	12	4105
Optimization of Low Damage, High	**Resolution** Etch Process for SiNx in an ECR Reactor	1	258
ination of Lithium Ion Transference Numbers by Electrophoretic Nuclear Magnetic	**Resonance** Determ	6	L107
Formation of High-Quality Nitrided Silicon Dioxide Films Using Electron-Cyclotron	**Resonance** Chemical Vapor Deposition with Nitrous Oxide and Silane	8	1681
A WSixN Diffusion Barrier Formed with Electron Cyclotron	**Resonance** Nitrogen Plasma	11	3747
7Li-Nuclear Magnetic	**Resonance** Observation of Lithium Insertion into Mesocarbon Microbeads	8	1923
Electron Cyclotron	**Resonance** Plasma Etching of Native TiO2 on TiN	1	264
al Annealing Behavior of Amorphous SiC Layers Deposited by Electron Cyclotron	**Resonance** Plasma Rapid Therm	1	271
Effects of Annealing on Damage in AlGaAs Induced by Electron Cyclotron	**Resonance** SF6/CHF3 Plasma Etching	3	1151
Profile and Morphology Control during Etching of SiC Using Electron Cyclotron	**Resonant** Plasmas	8	2620
Structure of Impedance Spectra for Systems with a Large Ohmic Resistance with	**Respect** to the Polarization Impedance The Error	12	3880
Interpretation of the Power	**Response** of a Fuel Cell with a Quadratic Logistic Differential Equation	6	L113
Voltammetric	**Response** of Nicotinamide Coenzyme I at a Silver Electrode	7	L141
anium Coated with Tungsten The Photoelectrochemical	**Response** of TiO2-WO3 Mixed Oxide Films Prepared by Thermal Oxidation of Ti	7	2226
in the Double-Layer Region	**Response** of the Electrochemical Quartz Crystal Microbalance for Gold Electrodes	7	2240

		Issue	Page
under Near-Infrared Light Stimulation	**Response** Time of Photostimulated Luminescence of BaFX:Eu2+ and BaFCl:Pr3+	7	2346
	Response Time of Thin-Layer Electrolytic Cells to Potential-Step Signals	12	4008
Current	**Responses** to an Impulse Laser Light Illumination in Semiconductor Electrodes	7	2220
phic Changes of Polycrystalline Ag and Cu Electrodes in Acid Aqueous Solutions	**Resulting** from a Prolonged Application of the Potential Reversal Technique	7	2294
re SiH4:O2:He Chemical Vapor Deposition Reactor. Experimental and Numerical	**Results** Particle Size Distribution in a Low Pressu	10	3397
ient Method for Measuring Diffusion Coefficients of Thin Film Battery Electrode	**Results** for LiyCoO2 and LixC6 Thin Films A Trans	6	L129
n Acid Aqueous Solutions Resulting from a Prolonged Application of the Potential	**Reversal** Technique Topographic Changes of Polycrystalline Ag and Cu El	7	2294
A	**Reverse** Monte Carlo Modeling Study of Diamond-Like Carbon	1	292
by Styrene/Argon Discharge Effects of	**RF** Power on Plasma Phase Reactions and Film Structure in Deposition of a-C:H	4	1451
hylene-Copolymer-Based Membrane Containing Sulfonic Acid Group Prepared by	**RGP** Proton Transport Through Polyethylene-Tetrafluoroet	9	2795
Stages of Aniline Polymerization Studied by Spectroelectrochemical and Rotating	**Ring** Disk Electrode Techniques Electrochemistry of Conductive Polymers.	4	1277
ng Czochralski Silicon Crystals The Dependence of	**Ring**-Like Distributed Stacking Faults on the Axial Temperature Gradient of Growi	5	1648
Improvement of High Temperature Water	**Rinsing** and Drying for HF-Last Wafer Cleaning	1	233
e A New Type of a	**Rocking**-Chair Battery Family Based on a Graphite Anode and a Polymer Cathod	2	L29
onnections	**Roles** of Cap-Metal on Via Electromigration Resistance in Aluminum-Based Interc	3	1043
Unintentional Doping of Wafers Due to Organophosphates in the Clean	**Room** Ambient	9	2906
minum Alloys from the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride	**Room** Temperature Molten Salt Electrodeposition of Nickel-Alu	1	130
tical Microscopy Investigations of Lithium and Sodium Film Formation in Buffered	**Room** Temperature Molten Salts In Situ Op	7	L145
les of Ytterbium in the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride	**Room** Temperature Molten Salt Electrochemical and Spectroscopic Stud	1	170
ydimethylsiloxane Voltammetry and Conductivity of a Polyether-Pyridinium	**Room** Temperature Molten Salt Electrolyte and of Its Polymer Electrolyte Solution	2	401
s of SiOF Films Formed Using Tetraethylorthosilicate and Fluorotriethoxysilane at	**Room** Temperature by Chemical Vapor Deposition Characteristic	2	707
Electrodeposition and Stripping of Lithium and Sodium on Inert Electrodes at	**Room** Temperature Chloroaluminate Molten Salts	3	908
uropium(III) Chloride in Aluminum Chloride-1-Methyl-3-ethylimidazolium Chloride	**Room** Temperature Molten Salts Spectroscopic and Electrochemical Studi	3	914
nhanced Chemical Deposition	**Room** Temperature Deposition of Silicon Dioxide Films by Ion-Assisted Plasma E	4	1443
Plating and Stripping of Sodium from a	**Room** Temperature 1,2-Dimethyl-3-propylimidazolium Chloride Melt	7	2262
Electrodeposition of Cobalt-Aluminum Alloys from	**Room** Temperature Chloroaluminate Molten Salt	9	2747
Total	**Room** Temperature Wet Cleaning for Si Substrate Surface	9	2957
Electrodeposition of Cobalt and Cobalt-Aluminum Alloys from a	**Room** Temperature Chloroaluminate Molten Salt	11	3448
	Room Temperature Inorganic "Quasi-Molten Salts" as Alkali-Metal Electrolytes	11	3548
Wet Chemical Digital Etching of GaAs at	**Room** Temperature	11	3652
Plating and Stripping of Sodium from a	**Room** Temperature 1-Methyl-3-propylimidazolium Chloride Melt	12	3820
Mathematical Modeling of Electroless Nickel Deposition at Steady State Using	**Rotating** Disk Electrode	2	605
X. Early Stages of Aniline Polymerization Studied by Spectroelectrochemical and	**Rotating** Ring Disk Electrode Techniques Electrochemistry of Conductive	4	1277
rium-Rich Protective Films Using X-Ray Absorption Near-Edge Spectroscopy and	**Rotating-Disk-Electrode** Methods Studies of the Formation of Ce	1	147
ctronic Interface Roughness as a Consequence of Si-SiO2 Topographic Interface	**Roughness** Si-SiO2 Ele	3	1021
Si-SiO2 Electronic Interface	**Roughness** as a Consequence of Si-SiO2 Topographic Interface Roughness	3	1021
erential Interference Contrast Technique Surface and Interfacial	**Roughness** of Polished and Oxidized Silicon Wafers Evaluated by an Infrared Diff	11	L254
An Atomic Force Microscopy Study on the	**Roughness** of Silicon Wafers Correlated with Direct Wafer Bonding	7	2388
Kinetics of the Hydrogen Evolution Reaction on	**RuO2** and IrO2 Oxide Electrodes in H2SO4 Solution: An AC Impedance Study	11	3676
Characterization of Solution Derived	**RuO2** Electrodes for Pb(Zr,Ti)O3 Microcapacitors	9	3006
Electrochemical Polymerization of Aniline and Toluidine on	**RuO2-Coated** Titanium Electrodes	12	4019
Surface Characterization of	**RuO2-SnO2** Coated Titanium Electrodes	1	32
Solid Oxide Fuel Cells. Polarization of Ceria-Based Anode with Highly Dispersed	**Ruthenium** Catalysts in (H2 + CO2 + H2O) Gas High-Performance Electro	5	1700
Proton Insertion into	**Ruthenium** Oxide Film Prepared by Pulsed Laser Deposition	3	1068
Electrochemical and Surface Spectroscopic Studies of Thin Films of Bismuth	**Ruthenium** Oxide (Bi2Ru2O7)	11	3504
Electrochemical Reductions of Hg(II),	**Ruthenium-Nitrosyl** Complex, Chromate, and Nitrate in a Strong Alkaline Solution	12	3801

— S —

	Safety and Performance of Tadiran TLR-7103 Rechargeable Batteries	7	2110
ition of Cobalt-Aluminum Alloys from Room Temperature Chloroaluminate Molten	**Salt** Electrodepos	9	2747
inum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten	**Salt** Electrochemical and Spectroscopic Studies of Ytterbium in the Alum	1	170
inum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten	**Salt** Electrodeposition of Nickel-Aluminum Alloys from the Alum	1	130
t and Cobalt-Aluminum Alloys from a Room Temperature Chloroaluminate Molten	**Salt** Electrodeposition of Cobal	11	3448
A Vibrational Spectroscopic Study on the Interaction Between Lithium	**Salt** and Ethylene Carbonate Plasticizer for PAN-based Electrolytes	5	1510
A Novel Electrochemical Method for Measuring	**Salt** Diffusion Coefficients and Ion Transference Numbers	2	L44
ltammetry and Conductivity of a Polyether-Pyridinium Room Temperature Molten	**Salt** Electrolyte and of Its Polymer Electrolyte Solutions in Polydimethylsiloxane	2	401
tructure, 1H NMR Spectra, Thermodynamics, and Transport Properties of Molten	**Salt** Solutions. I. 4-Methylpyridinium Chloride and 4-Methylpyridinium Iodide	1	183
X-Ray Absorption Studies of ZnCl2-PEO and Mixed	**Salt** ZnCl2/KCl-PEO and ZnCl2/CsCl-PEO Complexes	10	3198
ns of Lithium and Sodium Film Formation in Buffered Room Temperature Molten	**Salts** In Situ Optical Microscopy Investigatio	7	L145
rocesses on Ni Electrodes in Propylene Carbonate Containing Various Electrolyte	**Salts** Electrochemical Oxidation P	8	2548
m and Sodium on Inert Electrodes in Room Temperature Chloroaluminate Molten	**Salts** Electrodeposition and Stripping of Lithiu	3	908
minum Chloride-1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten	**Salts** Spectroscopic and Electrochemical Studies of Europium(III) Chloride	3	914
Room Temperature Inorganic "Quasi-Molten	**Salts**" as Alkali-Metal Electrolytes	11	3548
The Performance and Stability of Ambient Temperature Molten	**Salts** for Solar Cell Applications	10	3099
arbonate A New Class of Electrochemically and Thermally Stable Lithium	**Salts** for Lithium Battery Electrolytes. II. Conductivity of Lithium Organoborates in	11	3585
noborates A New Class of Electrochemically and Thermally Stable Lithium	**Salts** for Lithium Battery Electrolytes. III. Synthesis and Properties of Some Lithiu	11	3572
d the Studies of Their Effect on Ion Pair Dissociation and Conductivity of Lithium	**Salts** in Nonaqueous Solutions The Synthesis of a New Family of Anion Re	12	3825
Potential-Induced Changes in the Surface Morphology of (100) n-InP	**Samples** Photoelectrochemically Etched	9	2815
Dislocation Etch Pits in GaN Epitaxial Layers Grown on	**Sapphire** Substrates	1	L17
dy of the Kinetics and Mechanism of the Anodic Reaction on Graphite Anodes in	**Saturated** Cryolite-Alumina Melts An Impedance Stu	8	1840
titative Interpretation of the Thermodynamic Properties of NaCl(aq) from "Zero to	**Saturation"** Physical Electrochemistry of Strong Electrolytes Based on Part	6	1789
Influence of	**SC-1/SC-2** Cleaning on Wafer-Bonded Silicon Dioxide Structures	11	3722
Workpiece, Pattern, and Feature	**Scale** Current Distributions	2	486
Moisture Resistance in Annealed Borophosphosilicate Glass Films for Very Large	**Scale** Integrated Circuit Applications	9	3032
New Method of Purification of HF Chemicals for Very Large	**Scale** Integration Manufacturing	12	4119
Mesoscopic	**Scale** Modeling of Microloading during Low Pressure Chemical Vapor Deposition	8	2824
Steady-Stage Growth of NiO	**Scales** on Ceria-Coated Polycrystalline Nickel	9	3000
Mechanistic Study of Copper Deposition onto Gold Surfaces by	**Scaling** and Spectral Analysis of In Situ Atomic Force Microscopic Images	10	3122
allized Optical Fiber Simultaneous	**Scanning** Electrochemical and Photoelectrochemical Microscopy by Use of a Met	12	3863
ale	**Scanning** Microsensors for Measurement of Local pH Distributions at the Microsc	8	L174
Coarsening at Gold Electrode/Electrolyte Solution Interfaces Followed by In Situ	**Scanning** Tunneling Microscopy Kinetics of Particle	2	486
Fabrication of GaAs Microtips for	**Scanning** Tunneling Microscopy by Wet Etching	8	2816
tion of the Anisotropic Etching of (110) n-Si in Aqueous NH4F: Studies by In Situ	**Scanning** Tunneling Microscopy Atomic-Scale Elucida	12	4012
f 0.1 um Size Particles on Si Wafers Using Atomic Force Microscopy and Optical	**Scattering** First Observations o	12	4125
The Direct Observation of Grown-in Laser	**Scattering** Tomography Defects in Czochralski Silicon	10	L243
Simulations of a Feedback Control	**Scheme** for an Inductively Coupled Plasma Source for Etching Applications	4	1375
O/-1) Solid-State Redox Couple. Role of Nucleation and Nonideality for a Square	**Scheme** Surface Redox Reaction Cyclic Voltammetry of a TCNQ(	10	3039
A Novel Seed Layer	**Scheme** to Protect Catalytic Surfaces for Electroless Deposition	11	3812
Photodetectors Electrochemically Fabricated High-Barrier	**Schottky** Contacts on n-InP and Their Application for Metal-Semiconductor-Metal	6	1945
Chemical Vapor Deposition of Tungsten	**Schottky** Diodes to 6H-SiC	5	1862
mally Stimulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs	**Schottky** Diode Ther	12	4066
tically Stimulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs	**Schottky** Diode Op	12	4074
nductor Surface Evaluation Using the Effective Surface Recombination Speed for	**Schottky-Coupled** Photovoltage Measurements On Semico	6	1958
Interpretation of the Rationale for Feed Modification in	**SCWO** Systems	3	L59
Self-Discharge Mechanism of	**Sealed-Type** Nickel/Metal-Hydride Battery	6	1904
A	**Search** for the Mechanism of Direct Copper Plating via Bridging Ligands	11	3521
Possible Cause of the Memory Effect Observed in Nickel-Cadmium	**Secondary** Batteries	10	L225
e Insertion Electrodes: A New Diagnostic Tool for Analysis of Capacity Fading in	**Secondary** Li/LiMn2O4 Cells FTIR Spectroscopy of Metal Oxid	6	L136
New Carbon Electrodes for	**Secondary** Lithium Batteries	5	L95
A New Three-Volt Spinel Li1+xMn1.5Ni0.5O4 for	**Secondary** Lithium Batteries	8	1607
loat Charging of Valve-Regulated Lead-Acid Batteries: A Balancing Act Between	**Secondary** Reactions F	3	790

		Issue	Page
Electric Field Dependence of the Electron Capture Cross	**Section** of Neutral Traps in SiO2	8	2687
Dopant Depth Profiling by Anodic	**Sectioning** Using 0.1 M HCl Electrolyte	11	L256
A Novel	**Seed** Layer Scheme to Protect Catalytic Surfaces for Electroless Deposition	11	3512
Development of Surface Impurity	**Segregation** during Dissolution of Aluminum	1	83
Improved Graphite Anode for Lithium Ion Batteries: Chemically Bonded	**SEI** and Nanochannel Formation	1	L4
On the Repassivation Behavior of High-Purity Titanium and	**Selected** A, B and B + A Titanium Alloys in Aqueous Chloride Solutions	6	1847
	Selective CO Detection by Using Indium Oxide-Based Semiconductor Gas Sensor	2	L36
	Selective Dry Etching of III-V Nitrides in Cl2/Ar, CH4/H2/Ar, ICl/Ar, and IBr/Ar	10	L246
e Polymer Films	**Selective** Electroless Nickel Deposition on Patterned Phosphonate and Carboxylat	2	691
	Selective Electroplating Between Metal and Semiconductor Electrodes	11	3517
CeO2-Based Solid Electrolyte	**Selective** Oxidation of Propene Using an Electrochemical Membrane Reactor with	4	1284
emically Modified Electrodes	**Selective** Oxidation of Thiols to Disulfides at Polymeric Cobalt Phthalocyanine Ch	4	1283
On the Role of Chlorine in	**Selective** Silicon Epitaxy by Chemical Vapor Deposition	10	3290
Surface Control of	**Selective** Tungsten Chemical Vapor Deposition by Monolayer Nitridation of Silicon	2	L38
Capacitive Gas Sensor of Mixed Oxide CoO-In2O3 to	**Selectively** Detect Nitrogen Monoxide	6	1908
Identification of MOS Gate Dielectric Breakdown Spot Using High	**Selectivity** C1 Radical Etching Technique	8	2691
oning with a Discriminated Ion Determination of Improved	**Selectivity** Coefficients of Polymer Membrane Ion-Selective Electrodes by Conditi	4	L83
Electrochemical Formation of Polyaniline in	**Selenic** Acid	10	3079
posited Precursors Improved	**Selenization** Procedure to Obtain CuInSe2 Thin Films from Sequentially Electrode	2	493
Electrodeposited Silver Arrays Fabricated Utilizing	**Self-Assembled** Alkanethiolate Monolayer Photoresist	10	3117
o X-Ray Lithography	**Self-Developing** Characteristics of Si Containing Polymers and Their Application t	2	657
	Self-Discharge Mechanism of Sealed-Type Nickel/Metal-Hydride Battery	6	1904
	Self-Humidifying Polymer Electrolyte Membranes for Fuel Cells	12	3847
Current Responses to an Impulse Laser Light Illumination in	**Semiconductor** Electrodes	7	2220
ectron Pathways	**Semiconductor** Electrochemistry of Particulate Pyrite: Dissolution via Hole and El	10	3192
Selective Electroplating Between Metal and	**Semiconductor** Electrodes	11	3517
the Effect of Charge Carrier Density on the Photocatalytic Activity of Microporous	**Semiconductor** Electrode Films Photoelectrochemical Doping of TiO2 Part	11	3712
Selective CO Detection by Using Indium Oxide-Based	**Semiconductor** Gas Sensor	2	L36
Low-Background Instrumental Neutron Activation Analysis of Silicon	**Semiconductor** Materials	1	339
Potential Distribution in	**Semiconductor** Particles	6	L131
rtification of Reference Specimens for Determination of Oxygen Concentration in	**Semiconductor** Silicon by Infrared Spectrophotometry Methodology for the	1	258
Passivation of Sodium Ions in Metal Oxide	**Semiconductor** Structures by Annealing with Ultraviolet Light	10	3359
eed for Schottky-Coupled Photovoltage Measurements On	**Semiconductor** Surface Evaluation Using the Effective Surface Recombination Sp	6	1988
Impedance and Current-Voltage Behavior of a	**Semiconductor/Liquid** Junction with a Small Energy Barrier	8	1598
The Role of Metal Hydrides in Electrode Reactions on Metal Oxide	**Semiconductors**	10	3273
Extremely High Etch Rates of In-Based III-V	**Semiconductors** in BCl3/N2 Based Plasma	10	3394
Comparison of Dry Etching Techniques for III-V	**Semiconductors** in CH4/H2/Ar Plasmas	2	752
Materials Highly	**Sensitive** Etchants for Delineation of Defects in Single- and Polycrystalline Silicon	12	4079
Chemical	**Sensitivity** of the Thickness-Shear-Mode Quartz-Resonator Nanobalance	9	2838
Nature of	**Sensitivity** Promotion in Pd-Loaded SnO2 Gas Sensor	7	L148
Nature of Sensitivity Promotion in Pd-Loaded SnO2 Gas	**Sensor**	7	L148
Electrolysis of Water in CuO/ZnO Heterocontact Humidity	**Sensor**	4	L89
Selective CO Detection by Using Indium Oxide-Based Semiconductor Gas	**Sensor**	2	L36
latinization of Shapable Electroconductive Polymer Film for an Improved Glucose	**Sensor** P	10	3336
Sodium Ion Conductor Based	**Sensor** Attached with NaNO2 for Amperometric Detection of NO2	10	L241
Mixed Potential Type NOx	**Sensor** Based on Stabilized Zirconia and Oxide Electrode	2	L33
Mixed Potential Hydrogen	**Sensor** Combining Oxide Ion Conductor with Oxide Electrode	7	L164
Gel Process Amperometric Gas-Phase	**Sensor** for the Determination of Ammonia in a Solid-State Cell Prepared by a Sol-	6	L126
A New Potentiometric	**Sensor** for the Detection of Trace Metallic Contaminants in Hydrofluoric Acid	10	L235
Capacitive Gas	**Sensor** of Mixed Oxide CoO-In2O3 to Selectively Detect Nitrogen Monoxide	6	1908
Convective Diffusion to a Microdisk	**Sensor** Subject to Uniform Shear Flow	1	197
y(vinyl alcohol) A New Humidity	**Sensor** Using the Composite Film Derived from Poly(o-phenylenediamine) and Pol	9	2925
Construction and Working Mechanism of Sulfur Dioxide	**Sensor** Utilizing Stabilized Zirconia and Metal Sulfate	2	609
ed Influence of Interfacial Reaction Resistance and Fluid Flow on Microelectrode	**Sensors** The Combin	7	2252
Theory and Simulation of Solid-Electrolyte Wide-Range	**Sensors** for Combustion-Gas Streams	7	2396
Successive System for Hydrogenation of Styrene Using a Two-Compartment Cell	**Separated** by a Pd Sheet Electrode A New	4	L71
ell Power Conversion Efficiency, Electrode	**Separation**, and Overpotential in the Ferricyanide/Ferrocyanide Thermogalvanic C	8	2558
Structural and Compositional Characterization of High Energy	**Separation** by Implantation of Oxygen Structures Using Infrared Spectroscopy	9	3019
Infrared Spectroscopy Study of Chemical Oxides Formed by a	**Sequence** of RCA Standard Cleaning Treatments	9	2995
Improved Selenization Procedure to Obtain CuInSe2 Thin Films from	**Sequentially** Electrodeposited Precursors	2	493
ts of Annealing on Damage in AlGaAs Induced by Electron Cyclotron Resonance	**SF6/CHF3** Plasma Etching Effec	3	1151
Reactive Ion Etching of 6H-SiC in	**SF6/O2** and CF4/O2 with N2 Additive for Device Fabrication	3	1037
Etching Profiles and Neutral	**Shadowing** in Long Trenches	2	672
	Shallow Angle X-Ray Diffraction from As-Deposited Diamond Thin Films	3	1033
Formation on (100)Si Substrate Using TiNx and Its Electrical Characteristics as a	**Shallow** Contact Metallization Epitaxial C49-TiSi2	6	1984
ed Boron Sources Formation of	**Shallow** Junctions during Rapid Thermal Processing from Electron-Beam Deposit	9	2981
Near-Global Planarization of Oxide-Filled	**Shallow** Trenches Using Chemical Mechanical Polishing	11	3718
Platinization of	**Shapable** Electroconductive Polymer Film for an Improved Glucose Sensor	10	3336
Effect of Mask Wall Angle on	**Shape** Evolution during Through-Mask Electrochemical Micromachining	2	544
	Shape Evolution of Electrodeposited Copper Bumps	6	1880
Convective Diffusion to a Microdisk Sensor Subject to Uniform	**Shear** Flow	1	197
for Hydrogenation of Styrene Using a Two-Compartment Cell Separated by a Pd	**Sheet** Electrode A New Successive System	4	L71
Density of States Calculations of Small Diameter Single Graphene	**Sheets**	11	L262
Inductive Loops in Impedance Spectroscopy Caused by Electrical	**Shielding**	11	3630
Control of Surface Concentration of Boron or Phosphorus Employing Ion	**Shower** Doping	2	712
Surface Electronic Structures and Photoluminescence Mechanisms of Porous	**Si**	8	2502
al Potential on the Growth Mechanism and Properties of Anodic Oxides on (100)	**Si** Influence of the Initial Electrochemic	9	2931
Self-Developing Characteristics of	**Si** Containing Polymers and Their Application to X-Ray Lithography	2	657
Upper Yield Stress of	**Si** Crystals at High Temperatures	9	L178
nce Electrical Properties of n-Type (111)	**Si** in Aqueous K4Fe(CN)6 Solution. I. Interface States and Recombination Impeda	8	2531
opy Electrical Properties of n-Type (111)	**Si** in Aqueous K4Fe(CN)6 Solution. II. Intensity Modulated Photocurrent Spectrosc	8	2538
Amorphization of Thin	**Si** Layers by Arsenic Ion Implantation	3	L67
Asymmetric Distribution of Oxygen Concentration in the	**Si** Melt of a Czochralski System	2	722
Total Room Temperature Wet Cleaning for	**Si** Substrate Surface	9	2957
Is Ti Contamination in	**Si** Wafer Processing an Issue?	7	2353
Effects of Transmitted Electrons on Inductively Coupled Plasma Etching of a	**Si** Wafer Through an Al Mask	11	3752
	Si Wafer Etching with Synchrotron Radiation in a CF4 Gas Atmosphere	11	3764
First Observations of 0.1 um Size Particles on	**Si** Wafers Using Atomic Force Microscopy and Optical Scattering	12	4125
A Study of Nitrogen Incorporation during the Oxidation of	**Si(100)** in N2O at High Temperatures	1	221
hemical Processing of Silicon and Silicon Dioxide: Potential-pH Diagrams for the	**Si-F-H2O** System Dissolution Windows for Wet C	2	749
c Interface Roughness	**Si-SiO2** Electronic Interface Roughness as a Consequence of Si-SiO2 Topographi	3	1021
Generation of	**Si-SiO2** Interface States at Surface Potentials near 0.4 and 0.7 eV	11	3757
Si-SiO2 Electronic Interface Roughness as a Consequence of	**Si-SiO2** Topographic Interface Roughness	3	1021
Growth Enhancement Related to Annealing Induced Arsenic Accumulation in the	**Si/SiO2** Interface Region Oxide	1	L15
Process-Property Relationships in	**Si1-xGex** Chemical Vapor Deposition. Thermodynamic and Kinetic Studies	6	1719
Low Pressure Chemical Vapor Deposition of	**Si1-xGex** Films Using Si2H6 and GeH4 Source Gases	1	363
Low Pressure Chemical Vapor Deposition of Si1-xGex Films Using	**Si2H6** and GeH4 Source Gases	1	363
Enhanced Chemical Vapor Deposition of Silicon Films at Low Temperatures from	**Si2H6-H2-SiF4** Remote Plasma	8	2640
n and Performance of a New Reactor for Vapor Phase Epitaxy of 3C, 6H, and 4H	**SiC** Desig	9	2910
Rapid Thermal Annealing Behavior of Amorphous	**SiC** Layers Deposited by Electron Cyclotron Resonance Plasma	1	271
Profile and Morphology Control during Etching of	**SiC** Using Electron Cyclotron Resonant Plasmas	8	2620
Reactive Ion Etching of Copper Films in an	**SiCl4**, N2, Cl2, and NH3 Mixture	12	4089

		Issue	Page
The Influence of	**Side Reactions on the Performance of Electrochemical Double-Layer Capacitors**	6	1806
Wet Chemical Etching of High Quality V-Grooves with {111} A	**Sidewalls on (001) InP**	10	3271
Surface Evolution in a Pulsed Laser Induced Epitaxy Process of Submicron	**SiGe Wires**	8	2678
Response Time of Thin-Layer Electrolytic Cells to Potential-Step	**Signals**	12	4006
Ultrathin Silicon Nitride Films Fabricated by Single-Wafer Processing Using	**SiH2Cl2-NH3-H2 System and In Situ H2 Cleaning**	4	1459
The Effect of Gas-Phase Additives C2H4, C2H6, and C2H2 on	**SiH4/O2 Chemical Vapor deposition**	4	1355
sults Particle Size Distribution in a Low Pressure	**SiH4:O2:He Chemical Vapor Deposition Reactor. Experimental and Numerical Re**	10	3397
lectron-Cyclotron Resonance Chemical Vapor Deposition with Nitrous Oxide and	**Silane Formation of High-Quality Nitrided Silicon Dioxide Films Using E**	5	1681
Batch Reactor Kinetic Studies of Tungsten LPCVD from	**Silane and Tungsten Hexafluoride**	1	296
Pyrolysis Mechanism of	**Silanes, Difluorosilane, and Their Mixtures**	6	1996
Diffusion of Oxygen in	**Silica Glass**	6	1992
Adsorption of Chlorine on TiSi2: Application to Etching and Deposition of	**Silicide Films**	1	268
Plasma Assisted Dry Etching of Cobalt	**Silicide for Microelectronics Applications**	2	701
Cause of Aligned-Orientation Growth of Titanium	**Silicide in Plasma Enhanced Chemical Vapor Deposition**	11	3778
Light-Emitting Porous Silicon from Cast Metallurgical-Grade	**Silicon**	6	L115
vior of Buried Layers Formed by Substoichiometric Nitrogen Ion Implantation into	**Silicon Etch-Stop Beha**	3	1026
retation of Carrier Recombination Lifetime and Diffusion Length Measurements in	**Silicon Interp**	4	1399
Processing of Three-Dimensional Microstructures Using Macroporous n-Type	**Silicon**	1	385
Impact of Reactive Ion Etching Induced Carbon Contamination on Oxidation of	**Silicon**	7	2378
anism of AC Electrical Transport of Carriers in Freshly Formed and Aged Porous	**Silicon Mech**	12	3943
Contribution of Diffusion Interstitial Injection to Gettering of Metallic Impurities in	**Silicon**	1	361
Nitridation-Retarded Diffusion of Phosphorus in <100>	**Silicon**	1	352
Electrical Properties of Thermally Oxidized Porous	**Silicon**	9	2972
A Monte Carlo Binary Collision Model for BF2 Implants into (100) Single-Crystal	**Silicon**	11	3784
ect Observation of Grown-in Laser Scattering Tomography Defects in Czochralski	**Silicon The Dir**	10	L243
Dissolution Windows for Wet Chemical Processing of	**Silicon and Silicon Dioxide: Potential-pH Diagrams for the Si-F-H2O System**	2	749
Stress Reduction in Anodically Bonded	**Silicon and Borosilicate Glass by Thermal Treatment**	4	1409
Excitation and Chemical Pretreatment on Adsorption of Tungsten Hexafluoride on	**Silicon and Silicon Dioxide Studied by X-Ray Photoelectron Spectroscopy**	11	3670
Surface Characteristics of (100)	**Silicon Anisotropically Etched in Aqueous KOH**	4	1372
Isolated Submicrometer Filaments Formed by	**Silicon Anodization in HF Solutions**	5	L100
Microstructural Properties of Helium Implanted Void Layers in	**Silicon as Related to Front-Side Gettering**	2	725
ioxide Using Disilane. Rapid Thermal Chemical Vapor Deposition of Very Smooth	**Silicon at High Deposition Rates Silicon Nucleation and Film Evolution on**	2	649
New	**Silicon Bonding Method**	7	2371
Deposition of Tin Oxide into Porous	**Silicon by Atomic Layer Epitaxy**	2	683
Surface Modification of Porous	**Silicon by Aluminum Isopropoxide and Its Impact on Electroluminescence**	4	1390
The Mechanisms of Iron Gettering in	**Silicon by Boron Ion-Implantation**	4	1406
ference Specimens for Determination of Oxygen Concentration in Semiconductor	**Silicon by Infrared Spectrophotometry Methodology for the Certification of**	1	258
Identification Possibility of Metallic Impurities in p-Type	**Silicon by Lifetime Measurement**	1	216
In Situ Optical Analysis of the Gas Phase during the Deposition of	**Silicon Carbide from Methyltrichlorosilane**	5	1684
ynamic Heat Transfer and Mass Transport Modeling of the Sublimation Growth of	**Silicon Carbide Crystals Thermod**	11	3727
Hydrothermal BaTiO3 Thin Films on Ti-Covered	**Silicon: Characterization and Growth Mechanism**	3	1133
ibuted Stacking Faults on the Axial Temperature Gradient of Growing Czochralski	**Silicon Crystals The Dependence of Ring-Like Distr**	5	1648
Photoluminescence Measurements of Low-Level Oxygen in Thin	**Silicon Crystal Using a C-O Complex Formed Through Carbon Implantation**	9	2876
Fabrication of a Porous	**Silicon Diode Possessing Distinct Red and Orange Electroluminescent Regions**	2	L42
Silicon at High Deposition Rates Silicon Nucleation and Film Evolution on	**Silicon Dioxide Using Disilane. Rapid Thermal Chemical Vapor Deposition of Very**	2	649
Dissolution Windows for Wet Chemical Processing of Silicon and	**Silicon Dioxide: Potential-pH Diagrams for the Si-F-H2O System**	2	749
Etching Kinetics of	**Silicon Dioxide in Aqueous Fluoride Solutions. A Surface Complexation Model**	4	1339
Room Temperature Deposition of	**Silicon Dioxide Films by Ion-Assisted Plasma Enhanced Chemical Deposition**	4	1443
ition with Nitrous Oxide and Silane Formation of High-Quality Nitrided	**Silicon Dioxide Films Using Electron-Cyclotron Resonance Chemical Vapor Depos**	5	1681
al Vapor Deposition Using Tetraethoxysilane and Ozone Characteristics of	**Silicon Dioxide Films on Patterned Substrates Prepared by Atmospheric-Pressure**	5	1715
Photoassisted Liquid-Phase Deposition of	**Silicon Dioxide**	6	2044
d Chemical Pretreatment on Adsorption of Tungsten Hexafluoride on Silicon and	**Silicon Dioxide Studied by X-Ray Photoelectron Spectroscopy Effects of Pl**	11	3670
Influence of SC-1/SC-2 Cleaning on Wafer-Bonded	**Silicon Dioxide Structures**	11	3722
Computer Simulation of Oxygen Precipitation in Czochralski-Grown	**Silicon during HI-LO-HI Anneals**	3	995
On the Origin of Electrochemical Oscillations at	**Silicon Electrodes**	4	1313
p- and n-Type	**Silicon Electrochemical Properties in Dilute Hydrofluoric Acid Solutions**	11	3532
On The Mechanism of Boron Incorporation during	**Silicon Epitaxy by Means of Chemical Vapor Deposition**	2	634
Effect of Transport Phenomena on Buron Concentration Profiles in	**Silicon Epitaxial Wafers**	2	677
The Viability of GeH4-Based In Situ Clean for Low Temperature	**Silicon Epitaxial Growth**	7	2387
On the Role of Chlorine in Selective	**Silicon Epitaxy by Chemical Vapor Deposition**	10	3290
Surface Morphology of p-Type (100)	**Silicon Etched in Aqueous Alkaline Solution**	5	1744
High Temperature Local Oxidation of	**Silicon Field Isolation Morphological Characterization**	11	L259
Remote Plasma Enhanced Chemical Vapor Deposition of	**Silicon Films at Low Temperatures from Si2H6-H2-SiF4**	8	2640
in-Film Transistors Fabricated on Fluorine-Implanted and Crystallized Amorphous	**Silicon Films Characteristics of Top-Gate Polysilicon Th**	10	3302
Distribution of Residual Stresses in Boron Doped p+	**Silicon Films**	10	3389
Photoluminescence in the Earliest stages of Porous	**Silicon Formation**	8	L164
Delaminations of Thin Layers by High Dose Hydrogen Ion Implantation in	**Silicon. Formation of Thin Silicon on Insulator Silicon Layers**	8	L166
Light-Emitting Porous	**Silicon from Cast Metallurgical-Grade Silicon**	6	L115
Double-Layer mc-Si/a-SiCx Emitter in a	**Silicon Heterojunction Bipolar Transistor with a Cutoff Frequency of 47 GHz**	6	1949
Photoluminescence of Porous	**Silicon in Air**	11	3704
Enhanced Etching Rate of	**Silicon in Fluoride Containing Solutions at pH 6.4**	8	2683
Thermal Oxynitridation of	**Silicon in N2O Ambients**	10	3372
Nano-Trenched Local Oxidation of	**Silicon Isolation Using Island Polysilicon Grains**	2	639
Dose Hydrogen Ion Implantation in Silicon. Formation of Thin Silicon on Insulator	**Silicon Layers Delaminations of Thin Layers by High**	8	L166
Multiple Source Quantum Well Model of Porous	**Silicon Light Emission**	4	1394
Highly Sensitive Etchants for Delineation of Defects in Single- and Polycrystalline	**Silicon Materials**	12	4079
H2 System and In Situ H2 Cleaning Ultrathin	**Silicon Nitride Films Fabricated by Single-Wafer Processing Using SiH2Cl2-NH3-**	4	1459
Creation and Properties of Nitrogen Dangling Bond Defects in	**Silicon Nitride Thin Films**	11	3685
mical Vapor Deposition of Very Smooth Silicon at High Deposition Rates	**Silicon Nucleation and Film Evolution on Silicon Dioxide Using Disilane. Rapid Th**	2	649
gh-Temperature Thermal Oxidation Process at Top and Bottom Interfaces of Top	**Silicon of SIMOX Wafers Investigations on Hi**	1	244
hin Layers by High Dose Hydrogen Ion Implantation in Silicon. Formation of Thin	**Silicon on Insulator Silicon Layers Delaminations of T**	8	L166
Wettability of Polished	**Silicon Oxide Surfaces**	2	643
vel Interconnections Properties of Fluorinated	**Silicon Oxide Films Using Fluorotriethoxysilane for Interlayer Dielectrics in Multile**	3	1084
Low-Background Instrumental Neutron Activation Analysis of	**Silicon Semiconductor Materials**	1	339
de Removal of Metal and Organic Contaminants from	**Silicon Substrates Using Electrolysis-Ionized Water Containing Ammonium Chlori**	5	1632
Impact of Fe and Cu Contamination on the Minority Carrier Lifetime of	**Silicon Substrates**	9	3014
modynamics of the Formation of TiN from TiCl4-NH3-H2 on a Patterned Oxidized	**Silicon Substrate Ther**	10	3251
Investigation of Defect Concentration in Implanted	**Silicon Substrates by Hydrogen Decoration**	12	4101
trol of Selective Tungsten Chemical Vapor Deposition by Monolayer Nitridation of	**Silicon Surface Con**	2	L38
Copper Deposition on HF Etched	**Silicon Surfaces: Morphological and Kinetic Studies**	1	92
ons Modification of	**Silicon Surfaces with H2SO4:H2O2:HF and HNO3:HF for Wafer Bonding Applicati**	5	1709
Nonuniformities in Chemical Oxides on	**Silicon Surfaces Formed during Wet Chemical Cleaning**	7	2280
dy of the Oxidation Slow-Down Mechanism Induced by Carbon Contamination on	**Silicon Surface A Stu**	9	2565
The Role of Chemical Species in the Passivation of <100>	**Silicon Surfaces by HF in Water-Ethanol Solutions**	12	4059
Electroluminescence of Heavily Doped p-Type Porous	**Silicon under Electrochemical Oxidation in Galvanostatic Regime**	3	1055
Oxide Growth Enhancement on Highly n-Type Doped	**Silicon under Steam Oxidation**	4	1434
ue Surface and Interfacial Roughness of Polished and Oxidized	**Silicon Wafers Evaluated by an Infrared Differential Interference Contrast Techniq**	11	L254
Low-Temperature Out-Diffusion of Cu from	**Silicon Wafers**	6	2025
Nonparticulate Origins of Light Point Defects on Polished	**Silicon Wafers**	6	2068
emical Vapor Deposition H2 Cleaning of	**Silicon Wafers before Low-Temperature Epitaxial Growth by Ultrahigh Vacuum/Ch**	7	2361
An Atomic Force Microscopy Study on the Roughness of	**Silicon Wafers Correlated with Direct Wafer Bonding**	7	2365
Electrochemical Investigation of Copper Contamination on	**Silicon Wafers from HF Solutions**	9	2870

		Issue	Page
Identification and Removal of Trace Organic Contamination on	**Silicon** Wafers Stored in Plastic Boxes	10	3279
Impact of the Electrochemical Properties of	**Silicon** Wafer Surfaces on Copper Outplating from HF Solutions	10	3323
Synchrotron-Radiation-Excited Etching of	**Silicon** Wafer Enhanced by Disk-Shaped CF4 Plasma	12	4109
Effect of Temperature on the Interaction of	**Silicon** with Nonionic Surfactants in Alkaline Solutions	1	277
	Silicon-Diamond Interface Band Structure	3	1112
eliability Evaluation of Manufacturing Processes for Bipolar and MOS Devices on	**Silicon-on-Diamond** Materials R	4	1326
Formation Mechanism and Anticorrosive Properties of Thin	**Siloxane** Films on Metal Surfaces	1	251
Photo- and Chemiluminescence from Wohler	**Siloxenes**	8	2674
Oxidation Kinetics of Water and Organic Compounds by	**Silver** (II) Using a Potentiometric Method	6	1860
Effects of Small Amounts of	**Silver** Added to NiGe Ohmic Contacts to n-Type GaAs	5	1705
Microcontact Printing of Alkanethiols on	**Silver** and Its Application in Microfabrication	3	1070
esist Electrodeposited	**Silver** Arrays Fabricated Utilizing Self-Assembled Alkanethiolate Monolayer Photor	10	3117
Voltammetric Response of Nicotinamide Coenzyme I at a	**Silver** Electrode	7	L141
Pulsed Electroreduction of CO2 on	**Silver** Electrodes	2	582
ns	**Silver** Electrocrystallization on Vitreous Carbon from Ammonium Hydroxide Solutio	5	1551
Electrochemical Deposition of	**Silver** from a Low Cyanide Concentration Bath	9	2799
The Effect of Mechanical Processing Procedures on the Decomposition Rate of	**Silver** Oxide Cathode Material	2	418
Electrodeposition of	**Silver(II)** Oxide Films	9	2741
e03-Based Electrolytes	**Silver-BaCe0.8Gd0.2O3** Composites as Cathode Materials for SOFCs Using BaC	3	859
On Electron Conduction and Trapping in	**SIMOX** Dielectric	10	3354
Conducting and Charge-Trapping Defects in Buried Oxide Layers of	**SIMOX** Structures	1	347
Confinement Phenomena in Buried Oxides of	**SIMOX** Structures as Affected by Processing	2	696
rature Thermal Oxidation Process at Top and Bottom Interfaces of Top Silicon of	**SIMOX** Wafers Investigations on High-Tempe	1	344
Thermal Stability of Proton Conducting Acid Doped Polybenzimidazole in	**Simulated** Fuel Cell Environments	4	1225
Thermal Stability of Nafion in	**Simulated** Fuel Cell Environments	5	1498
Impedance Study of Reinforcing Steel in	**Simulated** Pore Solution with Tannin	8	2458
A Systematic Approach to	**Simulating** Rapid Thermal Processing Systems	6	2035
Anneals Computer	**Simulation** of Oxygen Precipitation in Czochralski-Grown Silicon during Hi-Lo-Hi	3	995
Theory and	**Simulation** of Solid-Electrolyte Wide-Range Sensors for Combustion-Gas Streams	7	2396
ource for Etching Applications	**Simulations** of a Feedback Control Scheme for an Inductively Coupled Plasma S	4	1375
Monte Carlo	**Simulations** of Conductivity of Composite Electrodes for Solid Oxide Fuel Cells	3	1123
ectrodes Monte Carlo	**Simulations** of Polarization Resistance of Composite Solid Oxide Fuel Cells for El	6	1930
Use of a Metallized Optical Fiber	**Simultaneous** Scanning Electrochemical and Photoelectrochemical Microscopy by	12	3853
Electrochemical Oxidation of Glucose on	**Single** Crystal and Polycrystalline Gold Surfaces in Phosphate Buffer	3	789
Density of States Calculations of Small Diameter	**Single** Graphene Sheets	11	L262
Highly Sensitive Etchants for Delineation of Defects in	**Single-** and Polycrystalline Silicon Materials	12	4079
ions on the Crystal Habit of Cu2O Particles	**Single-Crystal** Cu2O Formation on Amorphous Carbon Electrode and Effect of An	7	2105
A Monte Carlo Binary Collision Model for BF2 Implants into (100)	**Single-Crystal** Silicon	11	3784
XPS and STM Study of Passive Films Formed on Fe-22Cr(110)	**Single-Crystal** Surfaces	4	1182
Modeling Lithium Intercalation of	**Single-Fiber** Carbon Microelectrodes	2	600
Analytic Solution for Charge Transport and Chemical-Potential Variation in	**Single-Layer** and Multilayer Devices of Different Mixed-Conducting Oxides	10	3214
Ultrathin Silicon Nitride Films Fabricated by	**Single-Wafer** Processing Using SiH2Cl2-NH3-H2 System and In Situ H2 Cleaning	4	1459
The Overpotential as a Surface	**Singularity** Described by Nonequilibrium Thermodynamics	3	779
utions Nonstoichiometry of	**Sintered** Oxide Ca0.9La0.1MnO3-delta and Its Cathodic Properties in Alkaline Sol	2	567
zation of Smooth Hydrogen-Evolving Raney Nickel Cathode Coatings and Porous	**Sintered-Nickel** Cathodes Morphology and Utili	9	2852
Optimization of Low Damage, High Resolution Etch Process for	**SiNx** in an ECR Reactor	1	288
ctric Field Dependence of the Electron Capture Cross Section of Neutral Traps in	**SiO2** Ele	8	2687
Electrical Characteristics of Postoxidation Annealed Very Thin	**SiO2** Films. Potential Benefits of Rapid Thermal Processing	1	358
Stabilizing Dielectric Constants of Fluorine-Doped	**SiO2** Films by N2O-Plasma Annealing	1	381
Thermal Nitridation of	**SiO2** Films in Ammonia: The Role of Hydrogen	4	1426
rmetal Dielectrics An	**SiO2** Film Deposition Technology Using Tetraethylorthosilicate and Ozone for Inte	5	1769
Etching	**SiO2** Films in Aqueous 0.49% HF	9	2885
ges Thermal Nitridation of	**SiO2** Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in the Initial Sta	9	2938
s and in Reoxidation Thermal Nitridation of	**SiO2** Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in Further Stage	9	2946
Electron Traps and Excess Current Induced by Hot-Hole Injection into Thin	**SiO2** Films	10	3377
ectron Spectroscopy for Chemical Analysis of Cool White Phosphors Coated with	**SiO2** Thin Film El	1	302
ant and Stability of Fluorine-Doped Plasma Enhanced Chemical Vapor Deposited	**SiO2** Thin Films Dielectric Const	6	2015
m Temperature by Chemical Vapor Deposition Characteristics of	**SiOF** Films Formed Using Tetraethylorthosilicate and Fluorotriethoxysilane at Roo	2	707
	Site-Saturation Model for the Optical Efficiency of Tungsten Oxide-Based Devices	9	L186
on-Substituted Nickel Hydroxide Electrode In	**Situ** 57Fe Mossbauer Spectroscopy Study of the Electrochemical Behavior of an Ir	10	3083
A Quartz Crystal Microbalance Probe Developed for Outdoor In	**Situ** Atmospheric Corrosivity Monitoring	3	839
m-Copper Alloys In	**Situ** Atomic Force Microscopy Observations of the Corrosion Behavior of Aluminu	8	2471
of Copper Deposition onto Gold Surfaces by Scaling and Spectral Analysis of In	**Situ** Atomic Force Microscopic Images Mechanistic Study	10	3122
Aspects of Laminar Flow in a Channel-Type Electrochemical Cell as Applied to In	**Situ** Attenuated Total Reflection-Infrared Spectroscopy Theoretical	10	3160
The Viability of GeH4-Based In	**Situ** Clean for Low Temperature Silicon Epitaxial Growth	7	2387
n by Using Interdigitated Microarray Electrodes In	**Situ** Conductivity Measurements of LiCoO2 Film during Lithium Insertion/Extractio	10	3157
In	**Situ** Formation of Coated and Composite Palladium Particles via Spray Pyrolysis	11	3762
l Fuel Cell Anodes and Cathodes In	**Situ** Fourier Transform Infrared-Diffuse Reflection Spectroscopy of Direct Methano	10	3053
-Modified Electrode and the Application to the Electroreduction of CO2 In	**Situ** Fourier Transform Infrared Spectroscopic Studies on a Metal Complex-Immob	11	3606
nol/Oxygen Fuel Cell In	**Situ** FTIR-Diffuse Reflection Spectroscopy of the Anode Surface in a Direct Metha	2	L21
s Fabricated by Single-Wafer Processing Using SiH2Cl2-NH3-H2 System and In	**Situ** H2 Cleaning Ultrathin Silicon Nitride Film	4	1459
f the Electrochemical Double Layer at (100) Au in Perchloric Acid Solutions by In	**Situ** Infrared Spectroscopy Studies o	8	L171
Microwave Plasmas In	**Situ** Infrared Studies of Polyvinyl Chloride Films Exposed to H2/O2/Ar Downstream	9	2896
In	**Situ** Monitoring of Grouted Electrolytes	4	1214
uffered Room Temperature Molten Salts In	**Situ** Optical Microscopy Investigations of Lithium and Sodium Film Formation in B	7	L145
om Methyltrichlorosilane In	**Situ** Optical Analysis of the Gas Phase during the Deposition of Silicon Carbide fr	8	1654
The Hydrogen Reduction of WF6: A Kinetic Study Based on In	**Situ** Partial Pressure Measurements	5	1668
e Electrolytes In	**Situ** Quartz Crystal Microbalance Studies of Nickel Hydrous Oxide Films in Alkalin	1	37
Study of the Redox Process of Poly(5-amino-1-naphthol) Thin Film by In	**Situ** Raman Spectroscopy	7	2116
ds Heat-Treated at Various Temperatures In	**Situ** Raman Study of Electrochemical Lithium Insertion into Mesocarbon Microbea	8	2572
A 0.25 um MOSFET Technology Using In	**Situ** Rapid Thermal Gate Dielectrics	2	744
rticle Coarsening at Gold Electrode/Electrolyte Solution Interfaces Followed by In	**Situ** Scanning Tunneling Microscopy Kinetics of Pa	2	466
cidation of the Anisotropic Etching of (110) n-Si in Aqueous NH4F: Studies by In	**Situ** Scanning Tunneling Microscopy Atomic-Scale Elu	12	4012
ons: A Unified Mathematical Formalism In	**Situ** Spectroscopy in the Presence of Convective Flow under Steady-State Conditi	11	3839
of Artificial Iron Oxide Passive Films In	**Situ** X-Ray Absorption Near-Edge Spectroscopic Study of the Cathodic Reduction	2	574
ckel Battery Electrodes In	**Situ** X-Ray Absorption Near-Edge Structure Evidence for Quadrivalent Nickel in Ni	5	1613
Hydrogen Electrocatalysis by Carbon Supported Pt and Pt Alloys. An In	**Situ** X-Ray Absorption Study	7	2285
Transpassive Dissolution of Cr and Sputter-Deposited Cr Oxides Studied by In	**Situ** X-Ray Near-Edge Spectroscopy	12	3997
or. Experimental and Numerical Results Particle	**Size** Distribution in a Low Pressure SiH4:O2:He Chemical Vapor Deposition React	10	3397
Crystallite	**Size** Effects of Carbon-Supported Platinum on Oxygen Reduction in Liquid Acida	1	18
Effect of Platinum Particle	**Size** on the Oxygen Reduction Reaction on 2% Pt-1% H2WO4 in Phosphoric Acid	6	1814
First Observations of 0.1 um	**Size** Particles on Si Wafers Using Atomic Force Microscopy and Optical Scattering	12	4125
Grain	**Size-Internal** Stress Relationship in Iron-Nickel Alloy Electrodeposits	10	3327
A Study of the Oxidation	**Slow-Down** Mechanism Induced by Carbon Contamination on Silicon Surface	9	2965
Effects of	**Small** Amounts of Silver Added to NiGe Ohmic Contacts to n-Type GaAs	5	1705
Density of States Calculations of	**Small** Diameter Single Graphene Sheets	11	L262
pedance and Current-Voltage Behavior of a Semiconductor/Liquid Junction with a	**Small** Energy Barrier Im	5	1598
The Reaction of Clean Li Surfaces with	**Small** Molecules in Ultrahigh Vacuum. I. Dioxygen	2	422
Nickel Cathodes Morphology and Utilization of	**Smooth** Hydrogen-Evolving Raney Nickel Cathode Coatings and Porous Sintered-	9	2852
Electrochemical Deposition of Very	**Smooth** Lithium Using Nonaqueous Electrolytes Containing HF	7	2187
ilicon Dioxide Using Disilane. Rapid Thermal Chemical Vapor Deposition of Very	**Smooth** Silicon at High Deposition Rates Silicon Nucleation and Film Evolu	2	649
Nature of Sensitivity Promotion in Pd-Loaded	**SnO2** Gas Sensor	7	L148

		Issue	Page
Effects of an External Electric Field from a Substrate on Conductance of	SnO2 Thin Films	4	1334
Physicochemical Properties of	SnO2-Sb2O5 Films Prepared by the Spray Pyrolysis Technique	1	203
Electrochemical Characteristics of Crystalline and Amorphous	SnS2 in Lithium Cells	9	2847
Promoting Effect of	Sodium Dodecyl Sulfate on the Redox Reaction of Hemoglobin	2	L24
In Situ Optical Microscopy Investigations of Lithium and	Sodium Film Formation in Buffered Room Temperature Molten Salts	7	L145
t Plating and Stripping of	Sodium from a Room Temperature 1,2-Dimethyl-3-propylimidazolium Chloride Mel	7	2262
Plating and Stripping of	Sodium from a Room Temperature 1-Methyl-3-propylimidazolium Chloride Melt	12	3820
Cells with	Sodium Hypochlorite or Chlorite and Anodes of Magnesium or Aluminum	10	3133
ection of NO2	Sodium Ion Conductor Based Sensor Attached with NaNO2 for Amperometric Det	10	L241
et Light Passivation of	Sodium Ions in Metal Oxide Semiconductor Structures by Annealing with Ultraviol	10	3369
Electrodeposition and Stripping of Lithium and	Sodium on Inert Electrodes in Room Temperature Chloroaluminate Molten Salts	3	908
of 1,4-bis(Pyrrol-2-yl)benzene in the Presence of the Easily Oxidized Electrolyte	Sodium Tetraphenylborate Electropolymerization	8	L161
	Sodium/Phosphorus-Sulfur Cells. I. Cell Performance	2	406
	Sodium/Phosphorus-Sulfur Cells. II. Phase Equilibria	2	412
Silver-BaCe0.8Gd0.2O3 Composites as Cathode Materials for	SOFCs Using BaCeO3-Based Electrolytes	3	859
fect of Mechanical Grinding on the Lithium Intercalation Process in Graphites and	Soft Carbons Ef	12	3989
oration Followed by TEM Observation Identifying Defects in the Buried Oxides of	SOI Substrates Copper Dec	7	2357
Structural and Spectroelectrochemical Investigations of	Sol-Gel Derived Electrochromic Spinel Co3O4 Films	5	1532
lectrochromic Coatings. Composites of Polyaniline and Polyacrylate-Silica Hybrid	Sol-Gel Materials Large-Area E	8	2591
ristics of the Lanthanide Complex Incorporated into an ORMOSIL Matrix Using a	Sol-Gel Method Luminescence Characte	10	3333
se Sensor for the Determination of Ammonia in a Solid-State Cell Prepared by a	Sol-Gel Process Amperometric Gas-Pha	6	L126
Preparation and Characterization of Fine-Grain Yttrium-Based Phosphors by	Sol-Gel Process	1	189
um Transport in a New Li Intercalation Material AlO.11V2O5.15 Synthesized via a	Sol-Gel Process A Kinetic Study of Lithi	7	2083
	Sol-Gel-Derived Thin-Film Manganese Dioxide Cathodes	5	1629
Impurities in Chemical Bath Deposited CdS Films for Cu(In,Ga)Se2	Solar Cells and Their Stability	8	2682
The Performance and Stability of Ambient Temperature Molten Salts for	Solar Cell Applications	10	3099
A Hydrogen Sulfide Fuel Cell Using a Proton-Conducting	Solid Electrolyte	3	L55
ation of Propene Using an Electrochemical Membrane Reactor with CeO2-Based	Solid Electrolyte Selective Oxid	4	1264
n Molten Zinc	Solid Electrolyte Based Galvanic Cell for Measuring the Antimony Concentration i	8	2498
Ohmic Resistance Microstructure-Property Relations of	Solid Oxide Fuel Cell Cathodes and Current Collectors. Cathodic Polarization and	2	530
Monte Carlo Simulations of Conductivity of Composite Electrodes for	Solid Oxide Fuel Cells	3	1123
team Reforming of CH4 on Ni and Fe Anodes under Low Humidity Conditions in	Solid Oxide Fuel Cells Oxidation and S	4	1161
Characterization of Ni-YSZ Anode Degradation for Substrate-Type	Solid Oxide Fuel Cells	5	1521
Characterization of	Solid Oxide Fuel Cells by Use of an Internal Pt Voltage Probe	5	1558
lectrochemical Properties of Doped Lanthanum Chromites as Interconnectors for	Solid Oxide Fuel Cells E	5	1583
2O) Gas High-Performance Electrode for Medium-Temperature Operating	Solid Oxide Fuel Cells. Polarization of Ceria-Based Anode with Highly Dispersed	5	1700
Operating Properties of	Solid Oxide Fuel Cells Using BaCe0.8Gd0.2O3-Alpha Electrolyte	6	1886
Monte Carlo Simulations of Polarization Resistance of Composite	Solid Oxide Fuel Cells for Electrodes	6	1930
ty of Lanthanum Calcium Chromite-Lanthanum Strontium Manganite Interfaces in	Solid Oxide Fuel Cells Stabili	7	2332
nd Defect Structure A New Candidate for the	Solid Oxide Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Transport Properties a	9	2863
rocesses Chromium Vapor Species over	Solid Oxide Fuel Cell Interconnect Materials and Their Potential for Degradation P	11	3642
fect of Anodic Concentration Overvoltage on Power Generation Characteristics of	Solid Oxide Fuel Cells Ef	11	3699
CoO2, The End Member of the LixCoO2	Solid Solution	3	1114
Theory and Simulation of	Solid-Electrolyte Wide-Range Sensors for Combustion-Gas Streams	7	2396
Amperometric Gas-Phase Sensor for the Determination of Ammonia in a	Solid-State Cell Prepared by a Sol-Gel Process	6	L126
Electrochemical Determination of	Solid-State Interdiffusion in Nickel-Platinum Alloys	11	3662
	Solid-State Lithium Cells Based on Fluorinated Fullerene Cathodes	7	2267
me Surface Redox Reaction Cyclic Voltammetry of a TCNQ(0/-1)	Solid-State Redox Couple. Role of Nucleation and Nonideality for a Square Sche	10	3039
Surface Morphology of p-Type (100) Silicon Etched in Aqueous Alkaline	Solution	5	1744
Hydrogenation of C60 by Electrolysis of KOH-H2O	Solution	6	1919
Application of Porous Electrode Theory on Metal Hydride Electrodes in Alkaline	Solution	2	435
dius of (CF3SO2)3C- and Applicability of Stokes Law to Its Propylene Carbonate	Solution Ionic Ra	11	L270
f Hg(II), Ruthenium-Nitrosyl Complex, Chromate, and Nitrate in a Strong Alkaline	Solution Electrochemical Reductions o	12	3801
Activities of Rare-Earth Manganites for Cathodic Reduction of Oxygen in Alkaline	Solution Catalytic	11	L266
i-Mo-P/SnO2/Ti Electrodes with Heat-Treatment for Oxygen Evolution in Alkaline	Solution Characterization of the Electroless N	7	2158
Spectroelectrochemical Studies of Corrosion Films on Iron in Aqueous Carbonate	Solution Surface-Enhanced Raman	7	2146
CoO2, The End Member of the LixCoO2 Solid	Solution	3	1114
Toward a Reliable Value for the Diffusion Coefficient of Cupric Ion in Aqueous	Solution	4	1248
Kinetics of Oxygen Reduction at IrO2-Coated Titanium Electrode in Alkaline	Solution	5	1485
High-Rate Copper Dissolution in Hydrochloric Acid	Solution	3	961
ic Parameters of Bare and Copper Coated LaNi4.27Sn0.24 Electrodes in Alkaline	Solution Determination of Transport and Electrochemical Kinet	3	834
the Hydrogen Evolution Reaction on RuO2 and IrO2 Oxide Electrodes in H2SO4	Solution: An AC Impedance Study Kinetics of	11	3576
ical Quartz Crystal Microgravimetry Study of Zinc Electrode Behavior in a Neutral	Solution by Laser Illumination Electrochem	5	1525
hite Hydrogen Evolution Reaction in Alkaline	Solution Catalytic Influence of Pt Supported on Graphite vs. Pt Inclusions in Grap	3	919
An Experimental Study of Iron Corrosion in Sulfuric Acid	Solution Containing Inhibitors by Noise Measurement	11	3597
Inhibition Effects of Amines and Thiols on Iron Corrosion in Anhydrous Methanol	Solution Containing FeCl3	12	3866
Characterization of	Solution Derived RuO2 Electrodes for Pb(Zr,Ti)O3 Microcapacitors	9	3008
nd Multilayer Devices of Different Mixed-Conducting Oxides Analytic	Solution for Charge Transport and Chemical-Potential Variation in Single-Layer a	10	3214
Electrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6	Solution. I. Interface States and Recombination Impedance	8	2531
Electrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6	Solution. II. Intensity Modulated Photocurrent Spectroscopy	8	2538
Kinetics of Particle Coarsening at Gold Electrode/Electrolyte	Solution Interfaces Followed by In Situ Scanning Tunneling Microscopy	2	486
ygen Evolution on Co-Cu-Zn Ternary Spinel Oxide-Coated Electrodes in Alkaline	Solution. Integration of Statistical, Electrochemical, and Textural Approaches	4	1218
Impedance Study of Reinforcing Steel in Simulated Pore	Solution with Tannin	8	2458
lectrochemical Investigation of Copper Contamination on Silicon Wafers from HF	Solutions E	9	2870
of Sintered Oxide Ca0.9La0.1MnO3-delta and Its Cathodic Properties in Alkaline	Solutions Nonstoichiometry	2	567
r Effect on Ion Pair Dissociation and Conductivity of Lithium Salts in Nonaqueous	Solutions The Synthesis of a New Family of Anion Receptors and the Stu	12	3825
in Electrochemical Investigations of the Copper System in Dilute Copper Sulfate	Solutions Importance of Surface Preparation	12	3910
ical Species in the Passivation of <100> Silicon Surfaces by HF in Water-Ethanol	Solutions The Role of Chem	12	4059
urity Titanium and Selected A, B and B + A Titanium Alloys in Aqueous Chloride	Solutions On the Repassivation Behavior of High-P	6	1847
trochemical Studies on Dissolution and Passivation of Zinc Electrodes in Alkaline	Solutions Spectroelec	7	2125
Photoelectrochemical Etching of p-InP in Nitric Acid	Solutions	9	L200
Silver Electrocrystallization on Vitreous Carbon from Ammonium Hydroxide	Solutions	5	1551
Wet Chemical Etching of AlN and InAlN in KOH	Solutions	11	3881
Cementation of Copper on Aluminum in Alkaline	Solutions	4	1300
Isolated Submicrometer Filaments Formed by Silicon Anodization in HF	Solutions	5	L100
of Temperature on the Interaction of Silicon with Nonionic Surfactants in Alkaline	Solutions Effect	1	277
ctrochemical Properties of Silicon Wafer Surfaces on Copper Outplating from HF	Solutions Impact of the Ele	10	3323
gh-Phosphorus Electroless NiP and NiCuP Deposited from Nonammonia Alkaline	Solutions Interface with Substrates of Hi	9	2804
p- and n-Type Silicon Electrochemical Properties in Dilute Hydrofluoric Acid	Solutions	11	3832
Kinetics and Mechanism of the Etching of CoSi2 in HF-Based	Solutions	10	3245
The Etching of InP by Acidic Iodine	Solutions. A Kinetic and Electrochemical Study	4	1319
Etching Kinetics of Silicon Dioxide in Aqueous Fluoride	Solutions. A Surface Complexation Model	4	1339
Inorganic Electrolyte	Solutions and Gels for Rechargeable Lithium Batteries	9	L209
Enhanced Etching Rate of Silicon in Fluoride Containing	Solutions at pH 6.4	8	2683
The Electrochemical Study on the Dissolution Behavior of Gold in Ammoniacal	Solutions at Temperatures above 100 C	6	1875
A Comparative Study of Synthetic Graphite and Li Electrodes in Electrolyte	Solutions Based on Ethylene Carbonate-Dimethyl Carbonate Mixtures	12	3809
Studies of the Electrochemical Double Layer at (100) Au in Perchloric Acid	Solutions by In Situ Infrared Spectroscopy	8	L171
Study of Deposition and Dissolution Processes of Lithium in Carbonate-Based	Solutions by Means of the Quartz-Crystal Microbalance	8	2517
Reduction of Hexavalent Chromium in Aqueous	Solutions by Polypyrrole. II. Thermodynamic, Kinetic, and Mechanistic Aspects	1	44
Anodic Behavior of Copper in Iodide	Solutions. Comparison with Chloride and Effect of Benzotriazole-Type Inhibitors	2	458
electric Detection of Changes in Surface Energy of Gold Electrode in Perchlorate	Solutions Containing Iodide Ions Piezo	3	899
Wet Chemical Etch	Solutions for AlxGa1-xP	1	L1

		Issue	Page
ure, 1H NMR Spectra, Thermodynamics, and Transport Properties of Molten Salt	**Solutions**. I. 4-Methylpyridinium Chloride and 4-Methylpyridinium Iodide St	1	183
ridinium Room Temperature Molten Salt Electrolyte and of Its Polymer Electrolyte	**Solutions** in Polydimethylsiloxane Voltammetry and Conductivity of a Poly	2	401
rate, N,N-Dimethylformamide, and Nitromethane at 25 C Conductance of	**Solutions** of Lithium tris(Trifluoromethanesulfonyl) Methide in Water, Acetonitrile,	1	184
Topographic Changes of Polycrystalline Ag and Cu Electrodes in Acid Aqueous	**Solutions** Resulting from a Prolonged Application of the Potential Reversal Techni	7	2294
Oxidation of Zinc in Alkaline	**Solutions** Studied by Electrochemical Impedance Spectroscopy	12	3895
Capacitive Deionization of NaCl and NaNO3	**Solutions** with Carbon Aerogel Electrodes	1	159
Aprotic Solvents. III. Voltammetric Study, at Microelectrode, of C60n- (n = 0 to 4)	**Solvation** in the Absence of Supporting Electrolyte Electroreduction of C60	2	650
Ethylmethylcarbonate, a Promising	**Solvent** for Li-Ion Rechargeable Batteries	12	L273
Use of Chloroethylene Carbonate as an Electrolyte	**Solvent** for a Graphite Anode in a Lithium-Ion Battery	7	2230
A Novel Electrolyte	**Solvent** for Rechargeable Lithium and Lithium-Ion Batteries	12	4047
Conductivity and Electrochemical Stability of Electrolytes Containing Organic	**Solvent** Mixtures with Lithium tris(Trifluoromethanesulfonyl)methide	4	L80
e Effects of the Organic	**Solvent** on the Electrochemical Lithium Intercalation Behavior of Graphite Electrod	2	L26
The Intrinsic Anodic Stability of Several Anions Comprising	**Solvent-Free** Ionic Liquids	3	798
n the Absence of Supporting Electrolyte Electroreduction of C60 in Aprotic	**Solvents**. III. Voltammetric Study, at Microelectrode, of C60n- (n = 0 to 4) Solvatio	2	650
Deposition of Diamond from a Plasma Jet with Dichlorobenzene as Carbon	**Source**	6	2003
A Study on Low Dielectric Material Deposition Using a Helicon Plasma	**Source**	9	2990
Simulations of a Feedback Control Scheme for an Inductively Coupled Plasma	**Source** for Etching Applications	4	1375
Use of di-Pi-cyclopentadienyl Manganese as a Dopant	**Source** for ZnS in Metallorganic Chemical Vapor Deposition	12	4118
Pressure Chemical Vapor Deposition of Si1-xGex Films Using Si2H6 and GeH4	**Source** Gases Low	1	363
Multiple	**Source** Quantum Well Model of Porous Silicon Light Emission	4	1394
unctions during Rapid Thermal Processing from Electron-Beam Deposited Boron	**Sources** Formation of Shallow J	9	2991
Poly(p-phenylene terephthalamide) Film Immobilizing Oligomer	**Species** as a Colored Matrix for Three-Color Electrochromic Displays	9	L212
s in Nanocrystalline/Nanoporous TiO2 Electrodes Due to Electrochemically Active	**Species** in the Electrolyte Photocurrent Losse	10	3173
tions The Role of Chemical	**Species** in the Passivation of <100> Silicon Surfaces by HF in Water-Ethanol Solu	12	4089
A Model for the Incorporation of Electrolyte	**Species** into Anodic Alumina	1	74
Degradation Processes Chromium Vapor	**Species** over Solid Oxide Fuel Cell Interconnect Materials and Their Potential for	11	3642
Infrared Spectrophotometry Methodology for the Certification of Reference	**Specimens** for Determination of Oxygen Concentration in Semiconductor Silicon b	1	258
on Impedance The Error Structure of Impedance	**Spectra** for Systems with a Large Ohmic Resistance with Respect to the Polarizati	12	3890
thylpyridinium Chloride and 4-Methylpyridinium Iodide Structure, 1H NMR	**Spectra**, Thermodynamics, and Transport Properties of Molten Salt Solutions. I. 4-	1	183
Mechanistic Study of Copper Deposition onto Gold Surfaces by Scaling and	**Spectral** Analysis of In Situ Atomic Force Microscopic Images	10	3122
y of Conductive Polymers. XX. Early Stages of Aniline Polymerization Studied by	**Spectroelectrochemical** and Rotating Ring Disk Electrode Techniques Ele	4	1277
Co3O4 Films Structural and	**Spectroelectrochemical** Investigations of Sol-Gel Derived Electrochromic Spinel	5	1532
Electrochemical and	**Spectroelectrochemical** Studies of Cobalt Phthalocyanine Polymers	8	1800
s in Alkaline Solutions	**Spectroelectrochemical** Studies on Dissolution and Passivation of Zinc Electrode	7	2125
e Solution Surface-Enhanced Raman	**Spectroelectrochemical** Studies of Corrosion Films on Iron in Aqueous Carbonat	7	2146
Real-Time Mass	**Spectrometric** Study of the Methanol Crossover in a Direct Methanol Fuel Cell	4	1233
Medium	**Spectrophotometric** and Electrochemical Study of Gold-Iodide in Aqueous Borate	11	3477
for Determination of Oxygen Concentration in Semiconductor Silicon by Infrared	**Spectrophotometry** Methodology for the Certification of Reference Specim	1	258
Infrared	**Spectroscopic** Analysis of Phosphosilicate Glass Films for Micromachining	3	968
de-1-Methyl-3-ethylimidazolium Chloride Room Temperature Molten Salts	**Spectroscopic** and Electrochemical Studies of Europium(III) Chloride in Aluminu	3	914
Ion Implantation Transmission Electron Microscopy and	**Spectroscopic** Ellipsometry Studies of Damage Layer Induced by Large Tilt Angle	8	2636
midazolium Chloride Room Temperature Molten Salt Electrochemical and	**Spectroscopic** Studies of Ytterbium in the Aluminum Chloride - 1-Methyl-3-ethyli	1	170
ms In Situ X-Ray Absorption Near-Edge	**Spectroscopic** Study of the Cathodic Reduction of Artificial Iron Oxide Passive Fil	2	574
lloys An X-Ray Absorption Near-Edge	**Spectroscopic** Study of the Structure of Passive Films on Amorphous Al-Fe-Ce A	2	614
nate Plasticizer for PAN-based Electrolytes A Vibrational	**Spectroscopic** Study on the Interaction Between Lithium Salt and Ethylene Carbo	5	1510
Electrochemical and Surface	**Spectroscopic** Studies of Thin Films of Bismuth Ruthenium Oxide (Bi2Ru2O7)	11	3504
plication to the Electroreduction of CO2 In Situ Fourier Transform Infrared	**Spectroscopic** Studies on a Metal Complex-Immobilized Polyaniline/Prussian Blu	11	3606
dy of the Redox Process of Poly(5-amino-1-naphthol) Thin Film by In Situ Raman	**Spectroscopy** Stu	7	2116
pe (111) Si in Aqueous K4Fe(CN)6 Solution. II. Intensity Modulated Photocurrent	**Spectroscopy** Electrical Properties of n-Ty	8	2538
pe Electrochemical Cell as Applied to In Situ Attenuated Total Reflection-Infrared	**Spectroscopy** Theoretical Aspects of Laminar Flow in a Channel-Ty	10	3180
ution of Cr and Sputter-Deposited Cr Oxides Studied by In Situ X-Ray Near-Edge	**Spectroscopy** Transpassive Dissol	12	3997
Characterization of Polymer Electrolyte Fuel Cells Using AC Impedance	**Spectroscopy**	2	587
Polyaniline-Modified Platinum Electrodes Studied by Electrochemical Impedance	**Spectroscopy** Electrochemistry of Conducting Polymers. XIX. Oxidation of	4	1269
sten Hexafluoride on Silicon and Silicon Dioxide Studied by X-Ray Photoelectron	**Spectroscopy** Effects of Plasma Excitation and Chemical Pretreatment on	11	3879
Application of Measurement Models to Electrohydrodynamic Impedance	**Spectroscopy**	3	948
n of High Energy Separation by Implantation of Oxygen Structures Using Infrared	**Spectroscopy** Structural and Compositional Characterizatio	9	3019
Oxidation of Zinc in Alkaline Solutions Studied by Electrochemical Impedance	**Spectroscopy**	12	3895
chemical Behavior of Quasi-Spherical Beta-Ni(OH)2 Particles Studied by Raman	**Spectroscopy** Electro	8	2447
hemical Double Layer at (100) Au in Perchloric Acid Solutions by In Situ Infrared	**Spectroscopy** Studies of the Electroc	8	L171
Infrared Photothermal Deflection	**Spectroscopy**: A New Probe for the Investigation of Electrochemical Interfaces	5	1514
e Formation of Cerium-Rich Protective Films Using X-Ray Absorption Near-Edge	**Spectroscopy** and Rotating-Disk-Electrode Methods Studies of th	1	147
Thermally Stimulated Deep-Level Impedance	**Spectroscopy**. Application to an n-GaAs Schottky Diode	12	4066
Optically Stimulated Deep-Level Impedance	**Spectroscopy**. Application to an n-GaAs Schottky Diode	12	4074
Inductive Loops in Impedance	**Spectroscopy** Caused by Electrical Shielding	11	3636
Electrochemical and X-Ray Photoelectron	**Spectroscopy** Characterization of Surface Films on MmNi3.5Al0.8Co0.7	8	2422
sited Ternary Alloys Auger Electron	**Spectroscopy** Element Profiles and Interface with Substrates of Electroless Depo	11	3892
Thin Film Electron	**Spectroscopy** for Chemical Analysis of Cool White Phosphors Coated with SiO2	1	302
: A Unified Mathematical Formalism In Situ	**Spectroscopy** in the Presence of Convective Flow under Steady-State Conditions	11	3839
In Situ Fourier Transform Infrared-Diffuse Reflection	**Spectroscopy** of Direct Methanol Fuel Cell Anodes and Cathodes	10	3063
alysis of Capacity Fading in Secondary Li/LiMn2O4 Cells FTIR	**Spectroscopy** of Metal Oxide Insertion Electrodes: A New Diagnostic Tool for An	6	L138
Modulation	**Spectroscopy** of Subbandgap Light in Reduced TiO2 Electrodes	11	3800
In Situ FTIR-Diffuse Reflection	**Spectroscopy** of the Anode Surface in a Direct Methanol/Oxygen Fuel Cell	2	L21
d Cleaning Treatments Infrared	**Spectroscopy** Study of Chemical Oxides Formed by a Sequence of RCA Standar	9	2995
Hydroxide Electrode In Situ 57Fe Mossbauer	**Spectroscopy** Study of the Electrochemical Behavior of an Iron-Substituted Nickel	10	3083
Contact Etching Process Characterization by Using Angular X-Ray Photoelectron	**Spectroscopy** Technique	4	1347
n Semiconductor Surface Evaluation Using the Effective Surface Recombination	**Speed** for Schottky-Coupled Photovoltage Measurements O	6	1958
kali Carbonates A Kinetic Study of	**Spike** Peaks Observed under Pressurized Oxidant Gas Atmospheres in Molten Al	7	2315
Physical and Electrochemical Characterization of Quaternary Li-Mn-V-O	**Spinel** as Positive Materials for Rechargeable Lithium Batteries	3	1007
ural and Spectroelectrochemical Investigations of Sol-Gel Derived Electrochromic	**Spinel** Co3O4 Films Struct	5	1532
A New Three-Volt	**Spinel** Li1+xMn1.5Ni0.5O4 for Secondary Lithium Batteries	5	1607
Preparation and Electrochemical Characterization of Micron-Sized	**Spinel** LiMn2O4	5	1591
emical, and Textural Approaches Oxygen Evolution on Co-Cu-Zn Ternary	**Spinel** Oxide-Coated Electrodes in Alkaline Solution. Integration of Statistical, Ele	4	1218
Dissolution of	**Spinel** Oxides and Capacity Losses in 4 V Li/LixMn2O4 Cells	7	2204
thium Batteries The	**Spinel** Phases LiMyMn2-yO4 (M = Co, Cr, Ni) as the Cathode for Rechargeable Li	1	178
Synthesis and Electrochemical Studies of	**Spinel** Phase LiMn2O4 Cathode Materials Prepared by the Pechini Process	3	879
nce of Firing Temperature and Dopants Electrochemical Characteristics of	**Spinel** Phase LiMn2O4-Based Cathode Materials Prepared by the Pechini Proces	11	3590
An Investigation of Lithium Ion Insertion into	**Spinel** Structure Li-Mn-O Compounds	3	825
Horizontally Redundant,	**Split-Gate** a-Si:H Thin Film Transistors	8	2680
Identification of MOS Gate Dielectric Breakdown	**Spot** Using High Selectivity C1 Radical Etching Technique	8	2891
Fabrication of Anatase Thin Films from Peroxo-Polytitanic Acid by	**Spray** Pyrolysis	9	L191
Physicochemical Properties of SnO2-Sb2O5 Films Prepared by the	**Spray** Pyrolysis Technique	1	203
In Situ Formation of Coated and Composite Palladium Particles via	**Spray** Pyrolysis	11	3762
Properties of Zinc Telluride Containing Impurities Introduced during	**Spray** Pyrolysis	12	4054
Transpassive Dissolution of Cr and	**Sputter-Deposited** Cr Oxides Studied by In Situ X-Ray Near-Edge Spectroscopy	12	3997
Effect of Electrochemical Polarization on Optical Properties of	**Sputter-Prepared** Tin Nitride in Aqueous Electrolyte	1	326
The Effect of Preheating Treatment on Anodic Al2O3 Formed on	**Sputtered** Al Thin Films	3	984
Electromigration Characteristics of	**Sputtered** TiN/Ti/AlSiCu/TiON/Ti Interconnects with Aluminum Reflow	10	3297
Electrochromism in	**Sputtered** WO3 Thin Films	3	1050
f Amorphous Germanium-Carbon Alloy Prepared by Radio-Frequency Magnetron	**Sputtering** Thin Films o	12	4087
Fluorine-Doped Tin Dioxide Thin Films Prepared by Radio-Frequency Magnetron	**Sputtering**	1	283
Al-Ge Reflow	**Sputtering** for Submicron Contact Hole Filling	1	228
TCNQ(O/-1) Solid-State Redox Couple. Role of Nucleation and Nonideality for a	**Square** Scheme Surface Redox Reaction Cyclic Voltammetry of a	10	3639

		Issue	Page
ical Properties of Mixed Conducting Perovskites La1-xMxCo1-yFeyO3-delta (M =	Sr, Ba, Ca) Electrochem	9	2722
mic Fuel Cell Characterization of	Sr-Doped LaMnO3 and LaCoO3 as Cathode Materials for a Doped LaGaO3 Cera	11	3630
A New Long Phosphorescent Phosphor with High Brightness,	SrAl2O4:Eu2+,Dy3+	8	2670
Electrical Transport Properties and Defect Structure of	SrFeCo0.5Ox	5	1736
Synthesis and Cathodoluminescent Performance of Green-Emitting	SrS:Mn Phosphors	7	2328
s in Chemical Bath Deposited CdS Films for Cu(In,Ga)Se2 Solar Cells and Their	Stability Impuritie	8	2662
Thermodynamic	Stability and Electronic Conductivity of Na-beta-Alumina	3	943
The Performance and	Stability of Ambient Temperature Molten Salts for Solar Cell Applications	10	3099
Thermal	Stability of Concentrated V(V) Electrolytes in the Vanadium Redox Cell	4	L86
uoromethanesulfonyl)methide Conductivity and Electrochemical	Stability of Electrolytes Containing Organic Solvent Mixtures with Lithium tris(Trifl	4	L80
in Films Dielectric Constant and	Stability of Fluorine-Doped Plasma Enhanced Chemical Vapor Deposited SiO2 Th	6	2015
ces in Solid Oxide Fuel Cells	Stability of Lanthanum Calcium Chromite-Lanthanum Strontium Manganite Interfa	7	2332
Natural Organics and Environmental	Stability of Mercury. Electrochemical Considerations	6	L123
Thermal	Stability of Nafion in Simulated Fuel Cell Environments	5	1498
ell Environments Thermal	Stability of Proton Conducting Acid Doped Polybenzimidazole in Simulated Fuel C	4	1225
Effect of Nafion Dispersion on the	Stability of PtWO3 Electrodes	9	2703
The Intrinsic Anodic	Stability of Several Anions Comprising Solvent-Free Ionic Liquids	3	798
ethylamino Titanium	Stability of TiN Films Prepared by Chemical Vapor Deposition Using Tetrakis-dim	9	L188
Thermal	Stability of W-Contacted Junction Diodes	6	2053
Phase Transformation and Lattice Strain of alpha-AgI	Stabilized in Superionic Glass	2	687
Mixed Potential Type NOx Sensor Based on	Stabilized Zirconia and Oxide Electrode	2	L33
Construction and Working Mechanism of Sulfur Dioxide Sensor Utilizing	Stabilized Zirconia and Metal Sulfate	2	609
nealing	Stabilizing Dielectric Constants of Fluorine-Doped SiO2 Films by N2O-Plasma An	1	381
nd Propylene Carbonate A New Class of Electrochemically and Thermally	Stable Lithium Salts for Lithium Battery Electrolytes. II. Conductivity of Lithium Or	11	3585
e Lithium Organoborates A New Class of Electrochemically and Thermally	Stable Lithium Salts for Lithium Battery Electrolytes. III. Synthesis and Properties	11	3572
A Novel Process for Fabricating Conformal and	Stable TiN-Based Barrier Films	12	L279
Crystals The Dependence of Ring-Like Distributed	Stacking Faults on the Axial Temperature Gradient of Growing Czochralski Silicon	5	1648
e-Forming Substrates during Chemical Vapor Deposition. I. Transient Nucleation	Stage Nucleation Kinetics of Diamond on Carbid	3	1104
of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in the Initial	Stages Thermal Nitridation	9	2938
n of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and Oxygen in Further	Stages and in Reoxidation Thermal Nitridatio	9	2946
Electrode Techniques Electrochemistry of Conductive Polymers. XX. Early	Stages of Aniline Polymerization Studied by Spectroelectrochemical and Rotating	4	1277
Photoluminescence in the Earliest	stages of Porous Silicon Formation	8	L164
Behavior of Dissolved Molybdenum during Localized Corrosion of Austenitic	Stainless Steel	12	L277
tion of the Critical Temperature for Forming a Chromium-Rich Oxide on AISI 430	Stainless Steel and Its Corrosion Resistance Determina	8	2493
Critical Hydrogen Concentration for the Brittle Fracture of AISI 430	Stainless Steel	9	2736
Electronic Structure of Passive Films Formed on Molybdenum-Containing Ferritic	Stainless Steels	10	3088
Infrared Spectroscopy Study of Chemical Oxides Formed by a Sequence of RCA	Standard Cleaning Treatments	9	2995
The Chemical	State of Sulfur in Carbon-Supported Fuel-Cell Electrodes	3	813
Mathematical Modeling of Electroless Nickel Deposition at Steady	State Using Rotating Disk Electrode	2	505
ctrical Properties of n-Type (111) Si in Aqueous K4Fe(CN)6 Solution. I. Interface	States and Recombination Impedance Ele	8	2531
Generation of Si-SiO2 Interface	States at Surface Potentials near 0.4 and 0.7 eV	11	3757
Density of	States Calculations of Small Diameter Single Graphene Sheets	11	L262
u-Zn Ternary Spinel Oxide-Coated Electrodes in Alkaline Solution. Integration of	Statistical, Electrochemical, and Textural Approaches Oxygen Evolution on	4	1218
Mathematical Modeling of Electroless Nickel Deposition at	Steady State Using Rotating Disk Electrode	2	505
	Steady-Stage Growth of NiO Scales on Ceria-Coated Polycrystalline Nickel	9	3000
In Situ Spectroscopy in the Presence of Convective Flow under	Steady-State Conditions: A Unified Mathematical Formalism	11	3539
Oxide Growth Enhancement on Highly n-Type Doped Silicon under	Steam Oxidation	4	1434
Solid Oxide Fuel Cells Oxidation and	Steam Reforming of CH4 on Ni and Fe Anodes under Low Humidity Conditions in	4	1181
vior of Dissolved Molybdenum during Localized Corrosion of Austenitic Stainless	Steel Beha	12	L277
Critical Hydrogen Concentration for the Brittle Fracture of AISI 430 Stainless	Steel	9	2736
Critical Temperature for Forming a Chromium-Rich Oxide on AISI 430 Stainless	Steel and Its Corrosion Resistance Determination of the	8	2493
Impedance Study of Reinforcing	Steel in Simulated Pore Solution with Tannin	8	2458
Analysis of Electrochemical Noise Data for Polymer Coated	Steel in the Time and Frequency Domains	12	L286
Location of Corrosion on Iron and Carbon	Steel Surfaces with Crevices	8	L176
Structure of Passive Films Formed on Molybdenum-Containing Ferritic Stainless	Steels Electronic	10	3088
Critical Analysis of Potential	Step Data for Oxygen Transport in Electronically Conducting Perovskites	11	3497
tky Diode Thermally	Stimulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs Schot	12	4066
tky Diode Optically	Stimulated Deep-Level Impedance Spectroscopy. Application to an n-GaAs Schot	12	4074
imulated Luminescence of BaFX:Eu2+ and BaFCl:Pr3+ under Near-Infrared Light	Stimulation Response Time of Photost	7	2346
XPS and	STM Study of Passive Films Formed on Fe-22Cr(110) Single-Crystal Surfaces	4	1182
Ionic Radius of (CF3SO2)3C- and Applicability of	Stokes Law to Its Propylene Carbonate Solution	11	L270
The Hydrogen	Storage Properties of New Mg2Ni Alloy	9	L198
Identification and Removal of Trace Organic Contamination on Silicon Wafers	Stored in Plastic Boxes	10	3279
Phase Transformation and Lattice	Strain of alpha-AgI Stabilized in Superionic Glass	2	687
ory and Simulation of Solid-Electrolyte Wide-Range Sensors for Combustion-Gas	Streams The	7	2396
Recovery of Bromine from Waste Gas-Phase Hydrogen Bromide	Streams Using an Electrolytic Membrane	9	L184
acitors with Oxidized Nitride Films of Different Nitride Thicknesses under Positive	Stress Bias Conduction and Charge-Trapping Characteristics of MOS Cap	1	368
	Stress in Carbon Film Electrodes during Li+ Electrochemical Intercalation	8	2417
	Stress in Liquid-Phase Deposited Oxide Films	8	2958
Upper Yield	Stress of Si Crystals at High Temperatures	8	L176
Treatment	Stress Reduction in Anodically Bonded Silicon and Borosilicate Glass by Thermal	4	1409
Grain Size-Internal	Stress Relationship in Iron-Nickel Alloy Electrodeposits	10	3327
Distribution of Residual	Stresses in Boron Doped p+ Silicon Films	10	3389
	Striated Morphology during Electrodeposition	3	865
aluminate Molten Salts Electrodeposition and	Stripping of Lithium and Sodium on Inert Electrodes in Room Temperature Chloro	3	908
Chloride Melt Plating and	Stripping of Sodium from a Room Temperature 1,2-Dimethyl-3-propylimidazolium	7	2262
oride Melt Plating and	Stripping of Sodium from a Room Temperature 1-Methyl-3-propylimidazolium Chl	12	3820
cal Reductions of Hg(II), Ruthenium-Nitrosyl Complex, Chromate, and Nitrate in a	Strong Alkaline Solution Electrochemi	12	3801
perties of NaCl(aq) from "Zero to Saturation" Physical Electrochemistry of	Strong Electrolytes Based on Partial Dissociation and Hydration. Quantitative Inter	6	1789
ching Morphology and	Strongly Enhanced Photoresponse of GaP Electrodes Made Porous by Anodic Et	1	305
Superior Oxygen Ion Conductivity of Lanthanum Gallate Doped with	Strontium and Magnesium	5	1644
Stability of Lanthanum Calcium Chromite-Lanthanum	Strontium Manganite Interfaces in Solid Oxide Fuel Cells	7	2332
romic Spinel Co3O4 Films	Structural and Spectroelectrochemical Investigations of Sol-Gel Derived Electroch	5	1532
antation of Oxygen Structures Using Infrared Spectroscopy	Structural and Compositional Characterization of High Energy Separation by Impl	9	3019
Vanadium Oxide Fluoride-Graphite Intercalation Compounds:	Structural Characteristics and Electrochemical Insertion of Lithium Cations	7	2093
Optimization of the Composition of the Li1-zNi1+zO2 Electrode Materials:	Structural, Magnetic, and Electrochemical Studies	4	1168
	Structural Model Effects on the Predictions of Chemical Vapor Infiltration Models	6	1962
e Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical Transport Properties and Defect	Structure A New Candidate for the Solid Oxid	9	2883
emical Properties of a New Lithium Iron Oxide, LiFeO2, with a Corrugated Layer	Structure Synthesis, Structure, and Electroch	8	2435
Silicon-Diamond Interface Band	Structure	3	1112
lt Solutions. I. 4-Methylpyridinium Chloride and 4-Methylpyridinium Iodide	Structure, 1H NMR Spectra, Thermodynamics, and Transport Properties of Molte	1	183
ith a Corrugated Layer Structure Synthesis,	Structure, and Electrochemical Properties of a New Lithium Iron Oxide, LiFeO2, w	8	2435
	Structure and Lithium Intercalation Properties of Synthetic and Natural Graphite	11	3466
Dielectric Degradation of Cu/SiO2/Si	Structure during Thermal Annealing	3	990
In Situ X-Ray Absorption Near-Edge	Structure Evidence for Quadrivalent Nickel in Nickel Battery Electrodes	5	1613
Luminescence of Cs2NbOF5: Vibrational	Structure in [NbOF5]2- Luminescence	10	L234
Effects of RF Power on Plasma Phase Reactions and Film	Structure in Deposition of a-C:H by Styrene/Argon Discharge	4	1451
An Investigation of Lithium Ion Insertion into Spinel	Structure Li-Mn-O Compounds	3	825
	Structure of Anodic Films Formed on Magnesium	3	L62
Respect to the Polarization Impedance The Error	Structure of Impedance Spectra for Systems with a Large Ohmic Resistance with	12	3880
Morphology and	Structure of Oxide Films Formed on MgAl Alloys by Exposure to Air and Water	8	2584
An X-Ray Absorption Near-Edge Spectroscopic Study of the	Structure of Passive Films on Amorphous Al-Fe-Ce Alloys	2	614

		Issue	Page
Steels	Electronic **Structure** of Passive Films Formed on Molybdenum-Containing Ferritic Stainless	10	3089
Electrical Transport Properties and Defect	**Structure** of SrFeCo0.5Ox	6	1736
is and Application of Hydrogen Supplying Process in Metal-Oxide-Semiconductor	**Structures** Analys	11	3771
Influence of SC-1/SC-2 Cleaning on Wafer-Bonded Silicon Dioxide	**Structures**	11	3722
Conducting and Charge-Trapping Defects in Buried Oxide Layers of SIMOX	**Structures**	1	347
Surface Electronic	**Structures** and Photoluminescence Mechanisms of Porous Si	8	2502
Confinement Phenomena in Buried Oxides of SIMOX	**Structures** as Affected by Processing	2	695
Passivation of Sodium Ions in Metal Oxide Semiconductor	**Structures** by Annealing with Ultraviolet Light	10	3389
Characterization of Na+-Sensitive Electrolyte/Oxide/Semiconductor	**Structures** Obtained by Ion Implantation	4	1422
positional Characterization of High Energy Separation by Implantation of Oxygen	**Structures** Using Infrared Spectroscopy Structural and Com	9	3019
A New Successive System for Hydrogenation of	**Styrene** Using a Two-Compartment Cell Separated by a Pd Sheet Electrode	4	L71
Power on Plasma Phase Reactions and Film Structure in Deposition of a-C:H by	**Styrene/Argon** Discharge Effects of RF	4	1451
Greatly Enhanced	**Sub-Bandgap** Photocurrent in Porous GaP Photoanodes	3	1137
Gap Fill and Film Reflow Capability of	**Subatmospheric** Chemical Vapor Deposited Borophosphosilicate Glass	4	1414
Modulation Spectroscopy of	**Subbandgap** Light in Reduced TiO2 Electrodes	11	3800
Convective Diffusion to a Microdisk Sensor	**Subject** to Uniform Shear Flow	1	197
Thermodynamic Heat Transfer and Mass Transport Modeling of the	**Sublimation** Growth of Silicon Carbide Crystals	11	3727
Isolated	**Submicrometer** Filaments Formed by Silicon Anodization in HF Solutions	8	L100
Al-Ge Reflow Sputtering for	**Submicron** Contact Hole Filling	1	228
Oxide Growth Effects in Micron and	**Submicron** Field Regions. A Comparison Between Wet and Dry Oxidation	9	2953
Surface Evolution in a Pulsed Laser Induced Epitaxy Process of	**Submicron** SiGe Wires	8	2678
Evolution Effects of Ni, Fe, Cu, and Cr	**Substitutions** for Co in La0.8Sr0.2CoO3 on Electrocatalytic Properties for Oxygen	5	1505
Etch-Stop Behavior of Buried Layers Formed by	**Substoichiometric** Nitrogen Ion Implantation into Silicon	3	1026
mics of the Formation of TiN from TiCl4-NH3-H2 on a Patterned Oxidized Silicon	**Substrate** Thermodyna	10	3251
f Post-Cure Annealing on the Protective Properties of Polyimides on a Chromium	**Substrate** The Effect o	10	3307
during Epitaxial CoSi2 Formation Using Co/Ti Bilayer on Oxide Patterned (100)Si	**Substrate** and Its Effect on the Electrical Properties Defect Generation	3	L56
Effects of an External Electric Field from a	**Substrate** on Conductance of SnO2 Thin Films	4	1334
Effect of the Composition of Polypyrrole	**Substrate** on the Electrodeposition of Copper and Nickel	2	498
Total Room Temperature Wet Cleaning for Si	**Substrate** Surface	9	2957
llization Epitaxial C49-TiSi2 Formation on (100)Si	**Substrate** Using TiNx and Its Electrical Characteristics as a Shallow Contact Meta	6	1984
Characterization of Ni-YSZ Anode Degradation for	**Substrate-Type** Solid Oxide Fuel Cells	5	1521
ion Followed by TEM Observation Identifying Defects in the Buried Oxides of SOI	**Substrates** Copper Decorat	7	2387
Impact of Fe and Cu Contamination on the Minority Carrier Lifetime of Silicon	**Substrates**	9	3014
Dislocation Etch Pits in GaN Epitaxial Layers Grown on Sapphire	**Substrates**	1	L17
Freestanding Diamond Thin Films Grown on Glassy Carbon	**Substrates**	7	L180
Investigation of Defect Concentration in Implanted Silicon	**Substrates** by Hydrogen Decoration	12	4101
Nucleation Kinetics of Diamond on Carbide-Forming	**Substrates** during Chemical Vapor Deposition. I. Transient Nucleation Stage	3	1104
Auger Electron Spectroscopy Element Profiles and Interface with	**Substrates** of Electroless Deposited Ternary Alloys	11	3692
mmonia Alkaline Solutions Interface with	**Substrates** of High-Phosphorus Electroless NiP and NiCuP Deposited from Nona	9	2804
oxysilane and Ozone Characteristics of Silicon Dioxide Films on Patterned	**Substrates** Prepared by Atmospheric-Pressure Chemical Vapor Deposition Using	5	1715
Removal of Metal and Organic Contaminants from Silicon	**Substrates** Using Electrolysis-Ionized Water Containing Ammonium Chloride	5	1632
Separated by a Pd Sheet Electrode A New	**Successive** System for Hydrogenation of Styrene Using a Two-Compartment Cell	4	L71
Optimizing Pyrolysis of	**Sugar** Carbons for Use as Anode Materials in Lithium-Ion Batteries	10	3048
rking Mechanism of Sulfur Dioxide Sensor Utilizing Stabilized Zirconia and Metal	**Sulfate** Construction and Wo	2	809
Promoting Effect of Sodium Dodecyl	**Sulfate** on the Redox Reaction of Hemoglobin	2	L34
Atmospheric Corrosion of Aluminum in the Presence of Ammonium	**Sulfate** Particles	4	1175
Atmospheric Corrosion of Zinc in the Presence of Ammonium	**Sulfate** Particles	6	1539
paration in Electrochemical Investigations of the Copper System in Dilute Copper	**Sulfate** Solutions Importance of Surface Pre	12	3910
The Synergistic Effect of Hydrogen	**Sulfide** and Nitrogen Dioxide on the Atmospheric Corrosion of Zinc	1	51
A Palladium	**Sulfide** Catalyst for Electrolytic Plating	4	1206
A Hydrogen	**Sulfide** Fuel Cell Using a Proton-Conducting Solid Electrolyte	3	L65
rough Polyethylene-Tetrafluoroethylene-Copolymer-Based Membrane Containing	**Sulfonic** Acid Group Prepared by RIGP Proton Transport Th	9	2795
Direct Methanol Fuel Cell Cathodes with	**Sulfur** and Nitrogen-Based Carbon Functionality	10	3073
Construction and Working Mechanism of	**Sulfur** Dioxide Sensor Utilizing Stabilized Zirconia and Metal Sulfate	2	809
The Chemical State of	**Sulfur** in Carbon-Supported Fuel-Cell Electrodes	3	813
Investigation on Copper Corrosion in Thin Films of	**Sulfuric** Acid	1	139
An Experimental Study of Iron Corrosion in	**Sulfuric** Acid Solution Containing Inhibitors by Noise Measurement	11	3897
Phase Transformation and Lattice Strain of alpha-AgI Stabilized in	**Superionic** Glass	2	687
d Magnesium	**Superior** Oxygen Ion Conductivity of Lanthanum Gallate Doped with Strontium an	5	1644
	Superprotonic Conductors of Glassy Zirconium Phosphates	1	144
Analysis and Application of Hydrogen	**Supplying** Process in Metal-Oxide-Semiconductor Structures	11	3771
s Effects of Microstructure of Carbon	**Support** in the Catalyst Layer on the Performance of Polymer-Electrolyte Fuel Cell	7	2345
Hydrogen Evolution Reaction in Alkaline Solution Catalytic Influence of Pt	**Supported** on Graphite vs. Pt Inclusions in Graphite	3	919
Hydrogen Electrocatalysis by Carbon	**Supported** Pt and Pt Alloys. An In Situ X-Ray Absorption Study	7	2285
metric Study, at Microelectrode, of C60n- (n = 0 to 4) Solvation in the Absence of	**Supporting** Electrolyte Electroreduction of C60 in Aprotic Solvents. III. Volt	2	550
e Oxidation Slow-Down Mechanism Induced by Carbon Contamination on Silicon	**Surface** A Study of th	9	2965
elective Tungsten Chemical Vapor Deposition by Monolayer Nitridation of Silicon	**Surface** Control of S	2	L38
Total Room Temperature Wet Cleaning for Si Substrate	**Surface**	9	2957
Electrochemically Reduced Polycrystalline Tin Oxide Thin Films.	**Surface** Analysis and Electroplated Copper Adhesion	6	2048
ated by an Infrared Differential Interference Contrast Technique	**Surface** and Interfacial Roughness of Polished and Oxidized Silicon Wafers Evalu	11	L254
High	**Surface** Area V2O5 Aerogel Intercalation Electrodes	7	2099
	Surface Characterization of RuO2-SnO2 Coated Titanium Electrodes	1	32
	Surface Characteristics of (100) Silicon Anisotropically Etched in Aqueous KOH	4	1372
Etching Kinetics of Silicon Dioxide in Aqueous Fluoride Solutions. A	**Surface** Complexation Model	4	1339
Control of	**Surface** Concentration of Boron or Phosphorus Employing Ion Shower Doping	2	712
	Surface Electronic Structures and Photoluminescence Mechanisms of Porous Si	8	2502
Piezoelectric Detection of Changes in	**Surface** Energy of Gold Electrode in Perchlorate Solutions Containing Iodide Ions	3	890
-Coupled Photovoltage Measurements On Semiconductor	**Surface** Evaluation Using the Effective Surface Recombination Speed for Schottky	6	1958
Wires	**Surface** Evolution in a Pulsed Laser Induced Epitaxy Process of Submicron SiGe	8	2678
O3-delta	**Surface** Exchange Properties of Ce0.9Gd0.1O2-x Coated with La1-xSrxFeyCo1-y	10	L229
Electrochemical and X-Ray Photoelectron Spectroscopy Characterization of	**Surface** Films on MmNi3.5Al0.8Co0.7	8	2422
Development of	**Surface** Impurity Segregation during Dissolution of Aluminum	1	83
In Situ FTIR-Diffuse Reflection Spectroscopy of the Anode	**Surface** in a Direct Methanol/Oxygen Fuel Cell	2	L21
Electrodeposited Magnetic Alloys for	**Surface** Micromachining	10	3343
n Electroluminescence	**Surface** Modification of Porous Silicon by Aluminum Isopropoxide and Its Impact o	4	1380
Nanocrystalline TiO2 (Anatase) Electrodes:	**Surface** Morphology, Adsorption, and Electrochemical Properties	2	394
	Surface Morphology of p-Type (100) Silicon Etched in Aqueous Alkaline Solution	5	1744
Potential-Induced Changes in the	**Surface** Morphology of (100) n-InP Samples Photoelectrochemically Etched	9	2815
Generation of Si-SiO2 Interface States at	**Surface** Potentials near 0.4 and 0.7 eV	11	3757
ute Copper Sulfate Solutions Importance of	**Surface** Preparation in Electrochemical Investigations of the Copper System in Dil	12	3910
Effect of BCl3 Dry Etching on InAlN	**Surface** Properties	9	L217
On Semiconductor Surface Evaluation Using the Effective	**Surface** Recombination Speed for Schottky-Coupled Photovoltage Measurements	6	1958
lid-State Redox Couple. Role of Nucleation and Nonideality for a Square Scheme	**Surface** Redox Reaction Cyclic Voltammetry of a TCNQ(OI-1) So	10	3039
The Overpotential as a	**Surface** Singularity Described by Nonequilibrium Thermodynamics	3	779
2O7) Electrochemical and	**Surface** Specuroscopic Studies of Thin Films of Bismuth Ruthenium Oxide (Bi2Ru	11	3804
Iron in Aqueous Carbonate Solution	**Surface-Enhanced** Raman Spectroelectrochemical Studies of Corrosion Films on	7	2146
XPS and STM Study of Passive Films Formed on Fe-22Cr(110) Single-Crystal	**Surfaces**	4	1182
Wettability of Polished Silicon Oxide	**Surfaces**	2	643
rmation Mechanism and Anticorrosive Properties of Thin Siloxane Films on Metal	**Surfaces** Fe	1	251
Through the Use of Maximum-Likelihood Estimation of the Mean and Covariance	**Surfaces** Improved Within-Wafer Uniformity Modeling	10	3404
Titanium Nitridation on Copper	**Surfaces**	7	2349
Anomalous Oxidation Reactions at Noble Metal	**Surfaces** at Low Potentials: With Particular Reference to Palladium	3	848

		Issue	Page
The Role of Chemical Species in the Passivation of <100> Silicon	Surfaces by HF in Water-Ethanol Solutions	12	4059
ages Mechanistic Study of Copper Deposition onto Gold	Surfaces by Scaling and Spectral Analysis of In Situ Atomic Force Microscopic Im	10	3122
A Novel Seed Layer Scheme to Protect Catalytic	Surfaces for Electroless Deposition	11	3512
Nonuniformities in Chemical Oxides on Silicon	Surfaces Formed during Wet Chemical Cleaning	7	2280
Electrochemical Oxidation of Glucose on Single Crystal and Polycrystalline Gold	Surfaces in Phosphate Buffer	3	759
Copper Deposition on HF Etched Silicon	Surfaces: Morphological and Kinetic Studies	1	92
Application of Nonequilibrium Thermodynamics to the Electrode	Surfaces of Aluminum Electrolysis Cells	11	3440
Impact of the Electrochemical Properties of Silicon Wafer	Surfaces on Copper Outplating from HF Solutions	10	3323
The Dissipated Energy of Electrode	Surfaces: Temperature Jumps from Coupled Transport Processes	3	767
Location of Corrosion on Iron and Carbon Steel	Surfaces with Crevices	8	L178
The Reaction of Clean Li	Surfaces with Small Molecules in Ultrahigh Vacuum. I. Dioxygen	2	422
Modification of Silicon	Surfaces with H2SO4:H2O2:HF and HNO3:HF for Wafer Bonding Applications	8	1709
Effect of Temperature on the Interaction of Silicon with Nonionic	Surfactants in Alkaline Solutions	1	277
Lead Electrode in H2SO4. III. A Study of the Growth of the PbO Layer by Linear	Sweep Voltammetry Kinetics of Oxidation Processes on	4	1157
omenon Optical	Switching of Y-Hydride Thin Film Electrodes. A Remarkable Electrochromic Phen	10	3348
Si Wafer Etching with	Synchrotron Radiation in a CF4 Gas Atmosphere	11	3754
ed CF4 Plasma	Synchrotron-Radiation-Excited Etching of Silicon Wafer Enhanced by Disk-Shap	12	4109
Corrosion of Zinc The	Synergistic Effect of Hydrogen Sulfide and Nitrogen Dioxide on the Atmospheric	1	51
	Synthesis and Characterization of Li1+xMn2-xO4 for Li-Ion Battery Applications	1	100
	Synthesis and Low-Voltage Characteristics of CaTiO3:Pr Luminescent Powders	10	L231
als Prepared by the Pechini Process	Synthesis and Electrochemical Studies of Spinel Phase LiMn2O4 Cathode Materi	3	879
phors	Synthesis and Cathodoluminescent Performance of Green-Emitting SrS:Mn Phos	7	2328
chemically and Thermally Stable Lithium Salts for Lithium Battery Electrolytes. III.	Synthesis and Properties of Some Lithium Organoborates A New Class of	11	3872
atteries	Synthesis of Amorphous MoO2+delta and Its Electrode Performance in Lithium B	7	L143
issociation and Conductivity of Lithium Salts in Nonaqueous Solutions The	Synthesis of a New Family of Anion Receptors and the Studies of Their Effect on	12	3825
A Hydrogen-Nitric Oxide Cell for the	Synthesis of Hydroxylamine	11	3491
	Synthesis of LiCH(SO2CF3)2 and Ionic Conductivity of Polyether-Salt Complexes	4	1297
, LiFeO2, with a Corrugated Layer Structure	Synthesis, Structure, and Electrochemical Properties of a New Lithium Iron Oxide	8	2435
Electrochemical Insertion of Lithium into Carbon	Synthesized from Condensed Aromatics	7	2238
etic Study of Lithium Transport in a New Li Intercalation Material Al0.11V2O5.15	Synthesized via a Sol-Gel Process A Kin	7	2083
Structure and Lithium Intercalation Properties of	Synthetic and Natural Graphite	11	3486
Carbonate-Dimethyl Carbonate Mixtures A Comparative Study of	Synthetic Graphite and Li Electrodes in Electrolyte Solutions Based on Ethylene	12	3809
A	Systematic Approach to Simulating Rapid Thermal Processing Systems	6	2035
ell Performance	Systematic Theoretical Study of Alloys of Platinum for Enhanced Methanol Fuel C	6	2075

— T —

Leakage Current Mechanism of Amorphous and Polycrystalline	Ta2O5 Films Grown by Chemical Vapor Deposition	3	977
Safety and Performance of	Tadiran TLR-7103 Rechargeable Batteries	7	2110
Mechanism of the Elementary Electrochemical Processes	Taking Place during Oxygen Evolution on the Lead Dioxide Electrode	11	3616
Impedance Study of Reinforcing Steel in Simulated Pore Solution with	Tannin	8	2459
Etching of	Tantalum in Fluorine-Containing High Density Plasmas	10	3266
Barrier Effect of	TaSiN Layer for Oxygen Diffusion	11	L264
quare Scheme Surface Redox Reaction Cyclic Voltammetry of a	TCNQ(0/-1) Solid-State Redox Couple. Role of Nucleation and Nonideality for a S	10	3039
Electrochemical Deposition of Pd, Tl, and Ge for Applications in GaAs	Technology	4	L73
Planar Compatible Polymer	Technology for Packaging of Chemical Microsensors	6	2020
A 0.25 um MOSFET	Technology Using In Situ Rapid Thermal Gate Dielectrics	2	744
An SiO2 Film Deposition	Technology Using Tetraethylorthosilicate and Ozone for Intermetal Dielectrics	5	1789
A Reduced-Fluid Dynamic Discharge Model for Applications in	Technology-Oriented Computer-Aided Design	6	1940
Properties of Zinc	Telluride Containing Impurities Introduced during Spray Pyrolysis	12	4054
Copper Decoration Followed by	TEM Observation Identifying Defects in the Buried Oxides of SOI Substrates	7	2357
Wet Chemical Digital Etching of GaAs at Room	Temperature	11	3652
Plating and Stripping of Sodium from a Room	Temperature 1,2-Dimethyl-3-propylimidazolium Chloride Melt	7	2262
Plating and Stripping of Sodium from a Room	Temperature 1-Methyl-3-propylimidazolium Chloride Melt	12	3820
4-Based Cathode Materials Prepared by the Pechini Process. Influence of Firing	Temperature and Dopants Electrochemical Characteristics of Spinel Phase	11	3590
F Films Formed Using Tetraethylorthosilicate and Fluorotriethoxysilane at Room	Temperature by Chemical Vapor Deposition Characteristics of SiO	2	707
ectrodeposition and Stripping of Lithium and Sodium on Inert Electrodes in Room	Temperature Chloroaluminate Molten Salts El	3	906
Electrodeposition of Cobalt-Aluminum Alloys from Room	Temperature Chloroaluminate Molten Salt	9	2747
Electrodeposition of Cobalt and Cobalt-Aluminum Alloys from a Room	Temperature Chloroaluminate Molten Salt	11	3448
d Chemical Deposition Room	Temperature Deposition of Silicon Dioxide Films by Ion-Assisted Plasma Enhance	4	1443
tic Alloy Electrodes Electrocatalysis of Anodic Oxygen-Transfer Reactions.	Temperature Effects on Oxidation of Ethylamine, Alanine, and Ammonia at Anodi	8	2543
d Its Corrosion Resistance Determination of the Critical	Temperature for Forming a Chromium-Rich Oxide on AISI 430 Stainless Steel an	8	2493
The Dependence of Ring-Like Distributed Stacking Faults on the Axial	Temperature Gradient of Growing Czochralski Silicon Crystals	5	1648
Room	Temperature Inorganic "Quasi-Molten Salts" as Alkali-Metal Electrolytes	11	3548
The Dissipated Energy of Electrode Surfaces:	Temperature Jumps from Coupled Transport Processes	3	767
tion High	Temperature Local Oxidation of Silicon Field Isolation Morphological Characteriza	11	L259
Alloys from the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room	Temperature Molten Salt Electrodeposition of Nickel-Aluminum	1	130
icroscopy Investigations of Lithium and Sodium Film Formation in Buffered Room	Temperature Molten Salts In Situ Optical M	7	L145
Ytterbium in the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room	Temperature Molten Salt Electrochemical and Spectroscopic Studies of	1	170
hylsiloxane Voltammetry and Conductivity of a Polyether-Pyridinium Room	Temperature Molten Salt Electrolyte and of Its Polymer Electrolyte Solutions in Po	2	401
m(III) Chloride in Aluminum Chloride-1-Methyl-3-ethylimidazolium Chloride Room	Temperature Molten Salts Spectroscopic and Electrochemical Studies of E	3	914
The Performance and Stability of Ambient	Temperature Molten Salts for Solar Cell Applications	10	3099
utions Effect of	Temperature on the Interaction of Silicon with Nonionic Surfactants in Alkaline Sol	1	277
Repair of Plasma Etch Related Gate Perimeter Damage Using Low	Temperature Oxidation	2	628
The High	Temperature Phase Diagram of Li1+xMn2-xO4 and Its Implications	6	1783
The Viability of GeH4-Based In Situ Clean for Low	Temperature Silicon Epitaxial Growth	7	2387
A	Temperature Study of the Ionic Conductivity of a Hybrid Polymer Electrolyte	2	570
The Effect of Multilayer Patterns on	Temperature Uniformity during Rapid Thermal Processing	3	1142
Improvement of High	Temperature Water Rinsing and Drying for HF-Last Wafer Cleaning	1	233
Total Room	Temperature Wet Cleaning for Si Substrate Surface	9	2957
motic Drag Coefficient of Water and Methanol in Polymer Electrolytes at Elevated	Temperatures Electro-os	4	1260
A Study of Nitrogen Incorporation during the Oxidation of Si(100) in N2O at High	Temperatures	1	221
Upper Yield Stress of Si Crystals at High	Temperatures	8	L176
chemical Lithium Insertion into Mesocarbon Microbeads Heat-Treated at Various	Temperatures In Situ Raman Study of Electro	8	2572
Methanol Electro-oxidation on Unsupported Pt-Ru Alloys at Different	Temperatures	5	1685
rochemical Study on the Dissolution Behavior of Gold in Ammoniacal Solutions at	Temperatures above 100 C The Elect	6	1875
Remote Plasma Enhanced Chemical Vapor Deposition of Silicon Films at Low	Temperatures from Si2H6-H2-SiF4	8	2640
Modeling and Characterization of Gas-Phase Etching of Thermal Oxide and	TEOS Oxide Using Anhydrous HF and CH3OH	3	1099
ee-Color Electrochromic Displays Poly(p-phenylene	terephthalamide) Film Immobilizing Oligomer Species as a Colored Matrix for Thr	9	L212
troscopy Element Profiles and Interface with Substrates of Electroless Deposited	Ternary Alloys Auger Electron Spec	11	3692
High-Density Etching of Group III Nitride	Ternary Films	10	3285
Electrochemical, and Textural Approaches Oxygen Evolution on Co-Cu-Zn	Ternary Spinel Oxide-Coated Electrodes in Alkaline Solution. Integration of Statisti	4	1218
Alloys	Testing the Role of Metal Hydrolysis in the Anomalous Electrodeposition of Ni-Fe	12	3918
Substrates Prepared by Atmospheric-Pressure Chemical Vapor Deposition Using	Tetraethoxysilane and Ozone Characteristics of Silicon Dioxide Films on	5	1715
cal Vapor Deposition Characteristics of SiOF Films Formed Using	Tetraethylorthosilicate and Fluorotriethoxysilane at Room Temperature by Chemi	2	707
An SiO2 Film Deposition Technology Using	Tetraethylorthosilicate and Ozone for Intermetal Dielectrics	5	1789
Characterization of High Oxygen:	Tetraethylorthosilicate Ratio Plasma-Enhanced Chemical Vapor Deposited Films	3	1079
Electrical and Physical Characterization of	Tetraethylorthosilicate-O3 Borophosphosilicate Glass	10	3366
Atmospheric Pressure Chemical Vapor Deposition of Titanium Nitride from	tetrakis(Diethylamido) Titanium and Ammonia	2	736
Stability of TiN Films Prepared by Chemical Vapor Deposition Using	Tetrakis-dimethylamino Titanium	9	L188
bis(Pyrrol-2-yl)benzene in the Presence of the Easily Oxidized Electrolyte Sodium	Tetraphenylborate Electropolymerization of 1,4-	8	L161
ted Electrodes in Alkaline Solution. Integration of Statistical, Electrochemical, and	Textural Approaches Oxygen Evolution on Co-Cu-Zn Ternary Spinel Oxide	4	1218

		Issue	Page
Blocking Inhibitors in Cathodic Leveling. I.	**Theoretical** Analysis	12	3827
Materials for Electrochemical Capacitors.	**Theoretical** and Experimental Constraints	11	3791
Variable Diffusivity in Intercalation Materials. A	**Theoretical** Approach	4	1287
pplied to In Situ Attenuated Total Reflection-Infrared Spectroscopy	**Theoretical** Aspects of Laminar Flow in a Channel-Type Electrochemical Cell as A	10	3180
ance Systematic	**Theoretical** Study of Alloys of Platinum for Enhanced Methanol Fuel Cell Perform	6	2075
Gas Streams	**Theory** and Simulation of Solid-Electrolyte Wide-Range Sensors for Combustion-	7	2396
Application of Porous Electrode	**Theory** on Metal Hydride Electrodes in Alkaline Solution	2	435
	Thermal Analysis of Lithium-Ion Batteries	9	2708
lotron Resonance Plasma Rapid	**Thermal** Annealing Behavior of Amorphous SiC Layers Deposited by Electron Cyc	1	271
Dielectric Degradation of Cu/SiO2/Si Structure during	**Thermal** Annealing	3	990
Thermal Model Validation for Rapid	**Thermal** Chemical Vapor Deposition of Polysilicon	1	374
Silicon Nucleation and Film Evolution on Silicon Dioxide Using Disilane. Rapid	**Thermal** Chemical Vapor Deposition of Very Smooth Silicon at High Deposition R	2	649
A 0.25 um MOSFET Technology Using In Situ Rapid	**Thermal** Gate Dielectrics	2	744
icon	**Thermal** Model Validation for Rapid Thermal Chemical Vapor Deposition of Polysil	1	374
	Thermal Nitridation of SiO2 Films in Ammonia: The Role of Hydrogen	4	1426
xygen in the Initial Stages	**Thermal** Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and O	9	2938
xygen in Further Stages and in Reoxidation	**Thermal** Nitridation of SiO2 Films in Ammonia. Isotopic Tracing of Nitrogen and O	9	2946
Wafers Investigations on High-Temperature	**Thermal** Oxidation Process at Top and Bottom Interfaces of Top Silicon of SIMOX	1	244
Modeling and Characterization of Gas-Phase Etching of	**Thermal** Oxide and TEOS Oxide Using Anhydrous HF and CH3OH	3	1099
he Photoelectrochemical Response of TiO2-WO3 Mixed Oxide Films Prepared by	**Thermal** Oxidation of Titanium Coated with Tungsten T	7	2226
Electrochromic Behavior of Molybdenum Trioxide Thin Films, Prepared by	**Thermal** Oxidation of Electrodeposited Molybdenum Trisulfide, in Mixtures of Non	10	3109
	Thermal Oxynitridation of Silicon in N2O Ambients	10	3372
tics of Postoxidation Annealed Very Thin SiO2 Films. Potential Benefits of Rapid	**Thermal** Processing Electrical Characteris	1	358
The Effect of Multilayer Patterns on Temperature Uniformity during Rapid	**Thermal** Processing	3	1142
A Systematic Approach to Simulating Rapid	**Thermal** Processing Systems	8	2835
Formation of Shallow Junctions during Rapid	**Thermal** Processing from Electron-Beam Deposited Boron Sources	9	2981
	Thermal Stability of Concentrated V(V) Electrolytes in the Vanadium Redox Cell	4	L86
d Fuel Cell Environments	**Thermal** Stability of Proton Conducting Acid Doped Polybenzimidazole in Simulate	4	1225
	Thermal Stability of Nafion in Simulated Fuel Cell Environments	5	1490
	Thermal Stability of W-Contacted Junction Diodes	6	2053
Stress Reduction in Anodically Bonded Silicon and Borosilicate Glass by	**Thermal** Treatment	4	1409
Electrical Properties of	**Thermally** Oxidized Porous Silicon	9	2972
xyethane and Propylene Carbonate A New Class of Electrochemically and	**Thermally** Stable Lithium Salts for Lithium Battery Electrolytes. II. Conductivity of	11	3565
es of Some Lithium Organoborates A New Class of Electrochemically and	**Thermally** Stable Lithium Salts for Lithium Battery Electrolytes. III. Synthesis and	11	3572
aAs Schottky Diode	**Thermally** Stimulated Deep-Level Impedance Spectroscopy. Application to an n-G	12	4066
Charge and Discharge Characteristics of	**Thermochargeable** Galvanic Cells with an [Fe(CN)6]4-/[Fe(CN)6]3- Redox Couple	4	1305
	Thermodynamic Analysis of GaAs1-xPx Vapor Phase Epitaxy	8	2631
Process-Property Relationships in Si1-xGex Chemical Vapor Deposition.	**Thermodynamic** and Kinetic Studies	6	1719
Growth of Silicon Carbide Crystals	**Thermodynamic** Heat Transfer and Mass Transport Modeling of the Sublimation	11	3727
Reduction of Hexavalent Chromium in Aqueous Solutions by Polypyrrole. II.	**Thermodynamic**, Kinetic, and Mechanistic Aspects	1	44
tes Based on Partial Dissociation and Hydration. Quantitative Interpretation of the	**Thermodynamic** Properties of NaCl(aq) from "Zero to Saturation" Physical	6	1789
Liquid Cadmium	**Thermodynamic** Properties of U, Np, Pu, and Am in Molten LiCl-KCl Eutectic and	8	2487
	Thermodynamic Stability and Electronic Conductivity of Na-beta-Alumina	3	943
The Overpotential as a Surface Singularity Described by Nonequilibrium	**Thermodynamics**	3	779
inium Chloride and 4-Methylpyridinium Iodide Structure, 1H NMR Spectra,	**Thermodynamics**, and Transport Properties of Molten Salt Solutions. I. 4-Methylp	1	183
dized Silicon Substrate	**Thermodynamics** of the Formation of TiN from TiCl4-NH3-H2 on a Patterned Oxi	10	3251
Application of Nonequilibrium	**Thermodynamics** to the Electrode Surfaces of Aluminum Electrolysis Cells	11	3440
iciency, Electrode Separation, and Overpotential in the Ferricyanide/Ferrocyanide	**Thermogalvanic** Cell Power Conversion Eff	8	2558
A Mathematical Model for a	**Thick** Porous Metal-Hydride Electrode in Discharge	12	3972
	Thickness Dependence of Oxide Wearout	11	3736
Chemical Sensitivity of the	**Thickness-Shear-Mode** Quartz-Resonator Nanobalance	9	2835
Characteristics of .MOS Capacitors with Oxidized Nitride Films of Different Nitride	**Thicknesses** under Positive Stress Bias Conduction and Charge-Trapping	1	368
Electrochemical Behavior of	**Thin** Anodic Oxide Films on Zircaloy-4. Role of the Mobile Defects	12	3902
A Transient Method for Measuring Diffusion Coefficients of	**Thin** Film Battery Electrodes. Results for LiyCoO2 and LixC6 Thin Films	6	L129
sion Coefficients of Thin Film Battery Electrodes. Results for LiyCoO2 and LixC6	**Thin** Films A Transient Method for Measuring Diffu	6	L129
Investigation on Copper Corrosion in	**Thin** Films of Sulfuric Acid	1	139
Freestanding Diamond	**Thin** Films Grown on Glassy Carbon Substrates	7	L150
Fabrication of Anatase	**Thin** Films from Peroxo-Polytitanic Acid by Spray Pyrolysis	9	L191
Fabrication of	**Thin** Film LiCo0.5Ni0.5O2 Cathode for Li Rechargeable Microbattery	11	L268
Fluorine-Doped Tin Dioxide	**Thin** Films Prepared by Radio-Frequency Magnetron Sputtering	1	283
Spectroscopy for Chemical Analysis of Cool White Phosphors Coated with SiO2	**Thin** Film Electron	1	302
Improved Selenization Procedure to Obtain CuInSe2	**Thin** Films from Sequentially Electrodeposited Precursors	2	483
Electrodeposition of In-Se, Cu-Se, and Cu-In-Se	**Thin** Films	3	854
Flow-Induced Composition Modulated NiFe	**Thin** Films with Nanometer-Scale Wavelengths	3	873
The Effect of Preheating Treatment on Anodic Al2O3 Formed on Sputtered Al	**Thin** Films	3	984
Shallow Angle X-Ray Diffraction from As-Deposited Diamond	**Thin** Films	3	1033
Electrochromism in Sputtered WO3	**Thin** Films	3	1090
Hydrothermal BaTiO3	**Thin** Films on Ti-Covered Silicon: Characterization and Growth Mechanism	3	1133
Effects of an External Electric Field from a Substrate on Conductance of SnO2	**Thin** Films	4	1334
Electrochromic Properties of Cobalt Oxide	**Thin** Films Prepared by Chemical Vapor Deposition	4	1383
Nonphotosensitive, Vertically Redundant Two-Channel a-Si:H	**Thin** Film Transistor	4	1489
Cathodic Electrodeposition of Nanocrystalline Titanium Dioxide	**Thin** Films	5	1547
Electrochromic Properties of Iron Oxide	**Thin** Films Prepared by Chemical Vapor Deposition	5	1675
Electrochemical Behavior of LiMn2O4 and LiCoO2	**Thin** Films Produced with Pulsed Laser Deposition	6	1821
Repassivation of Pits in Aluminum	**Thin** Films	6	1834
te and Chromium Hexacarbonyl Chromium Oxide	**Thin** Films Prepared by Chemical Vapor Deposition from Chromium Acetylacetona	6	1955
d Stability of Fluorine-Doped Plasma Enhanced Chemical Vapor Deposited SiO2	**Thin** Films Dielectric Constant an	6	2015
Electrochemically Reduced Polycrystalline Tin Oxide	**Thin** Films. Surface Analysis and Electroplated Copper Adhesion	6	2048
Study of the Redox Process of Poly(5-amino-1-naphthol)	**Thin** Film by In Situ Raman Spectroscopy	7	2116
Horizontally Redundant, Split-Gate a-Si:H	**Thin** Film Transistors	8	2680
Optomechanical Studies of Lithium Intercalation in Amorphous Molybdenum	**Thin** Films	9	2822
:In2O3 Coatings with n-Type Conductivity Produced by Air Annealing of CdSe-In	**Thin** Films CdSe	9	2892
nd Aqueous Electrolytes Electrochromic Behavior of Molybdenum Trioxide	**Thin** Films, Prepared by Thermal Oxidation of Electrodeposited Molybdenum Trisu	10	3109
tion of 1,1,1,5,5,5-Hexafluoro-2,4-pentanedione (H+hfac) with Iron and Iron Oxide	**Thin** Films Reac	10	3257
Optical Switching of Y-Hydride	**Thin** Film Electrodes. A Remarkable Electrochromic Phenomenon	10	3348
Electrochemical and Surface Spectroscopic Studies of	**Thin** Films of Bismuth Ruthenium Oxide (Bi2Ru2O7)	11	3504
Creation and Properties of Nitrogen Dangling Bond Defects in Silicon Nitride	**Thin** Films	11	3685
Magnetron Sputtering	**Thin** Films of Amorphous Germanium-Carbon Alloy Prepared by Radio-Frequency	12	4087
Silicon on Insulator Silicon Layers Delaminations of	**Thin** Layers by High Dose Hydrogen Ion Implantation in Silicon. Formation of Thin	8	L166
Amorphization of	**Thin** Si Layers by Arsenic Ion Implantation	3	L87
s of Thin Layers by High Dose Hydrogen Ion Implantation in Silicon. Formation of	**Thin** Silicon on Insulator Silicon Layers Delamination	8	L166
Photoluminescence Measurements of Low-Level Oxygen in	**Thin** Silicon Crystal Using a C-O Complex Formed Through Carbon Implantation	9	2876
Formation Mechanism and Anticorrosive Properties of	**Thin** Siloxane Films on Metal Surfaces	1	251
Electrical Characteristics of Postoxidation Annealed Very	**Thin** SiO2 Films. Potential Benefits of Rapid Thermal Processing	1	358
Electron Traps and Excess Current Induced by Hot-Hole Injection into	**Thin** SiO2 Films	10	3377
Sol-Gel-Derived	**Thin-Film** Manganese Dioxide Cathodes	5	1629
Characterization of	**Thin-Film** Rechargeable Lithium Batteries with Lithium Cobalt Oxide Cathodes	10	3203
us Silicon Films Characteristics of Top-Gate Polysilicon	**Thin-Film** Transistors Fabricated on Fluorine-Implanted and Crystallized Amorpho	10	3302
Response Time of	**Thin-Layer** Electrolytic Cells to Potential-Step Signals	12	4006
Inhibition Effects of Amines and	**Thiols** on Iron Corrosion in Anhydrous Methanol Solution Containing FeCl3	12	3886
rodes Selective Oxidation of	**Thiols** to Disulfides at Polymeric Cobalt Phthalocyanine Chemically Modified Elect	4	1283
ne terephthalamide) Film Immobilizing Oligomer Species as a Colored Matrix for	**Three-Color** Electrochromic Displays Poly(p-phenyle	9	L212

		Issue	Page
emed Cathode with Auxiliary Electrode	**Three-Dimensional** Calculation of Current Distribution in Electrodeposition on Patt	2	480
Processing of	**Three-Dimensional** Microstructures Using Macroporous n-Type Silicon	1	385
el Cells A	**Three-Phase** Homogeneous Model for Porous Electrodes in Molten-Carbonate Fu	5	1617
A New	**Three-Volt** Spinel Li1+xMn1.5Ni0.5O4 for Secondary Lithium Batteries	5	1607
Modeling of Plated	**Through-Hole** Processes. I. Current Distribution	10	3139
Modeling of Plated	**Through-Hole** Processes. II. Effect of Leveling Agents on Current Distribution	10	3144
Effect of Mask Wall Angle on Shape Evolution during	**Through-Mask** Electrochemical Micromachining	2	544
Investigation of Island Formation during	**Through-Mask** Electrochemical Micromachining	7	2305
Electrochemical Deposition of Pd,	Ti, and Ge for Applications in GaAs Technology	4	L73
Is	Ti Contamination in Si Wafer Processing an Issue?	7	2353
The Use of a Double Mask System to Prevent	Ti Diffusion from a Ti/Pt/Au Ohmic Contact on Diamond	7	2392
Hydrothermal BaTiO3 Thin Films on	**Ti-Covered** Silicon: Characterization and Growth Mechanism	3	1133
The Use of a Double Mask System to Prevent Ti Diffusion from a	**Ti/Pt/Au** Ohmic Contact on Diamond	7	2392
Batteries Studies of Electrochemical Properties of	**Ti0.35Zr0.65NixV2-x-yMny** Alloys with C14 Laves Phase for Nickel/Metal Hydride	2	429
Thermodynamics of the Formation of TiN from	**TiCl4-NH3-H2** on a Patterned Oxidized Silicon Substrate	10	3251
copy and Spectroscopic Ellipsometry Studies of Damage Layer Induced by Large	**Tilt** Angle Ion Implantation Transmission Electron Micros	8	2636
Analysis of Electrochemical Noise Data for Polymer Coated Steel in the	**Time** and Frequency Domains	12	L286
r-Infrared Light Stimulation Response	**Time** of Photostimulated Luminescence of BaFX:Eu2+ and BaFCl:Pr3+ under Nea	7	2346
Response	**Time** of Thin-Layer Electrolytic Cells to Potential-Step Signals	12	4006
Electron Cyclotron Resonance Plasma Etching of Native TiO2 on	**TiN**	1	264
Fluorine-Doped	**Tin** Dioxide Thin Films Prepared by Radio-Frequency Magnetron Sputtering	1	283
Titanium Stability of	**TiN** Films Prepared by Chemical Vapor Deposition Using Tetrakis-dimethylamino	9	L188
Orientation Control of Chemical Vapor Deposition	**TiN** Film for Barrier Applications	6	2059
Thermodynamics of the Formation of	**TiN** from TiCl4-NH3-H2 on a Patterned Oxidized Silicon Substrate	10	3251
Effect of Electrochemical Polarization on Optical Properties of Sputter-Prepared	**Tin** Nitride in Aqueous Electrolyte	1	326
Corrosion of	**Tin** Oxide at Anodic Potentials	2	442
Deposition of	**Tin** Oxide into Porous Silicon by Atomic Layer Epitaxy	2	883
Electro-optical Charge Trapping in Zinc Porphyrin Films on Indium	**Tin** Oxide and /SiO2/Si	6	1914
Electrochemically Reduced Polycrystalline	**Tin** Oxide Thin Films. Surface Analysis and Electroplated Copper Adhesion	6	2048
A Novel Process for Fabricating Conformal and Stable	**TiN-Based** Barrier Films	12	L279
Bevel Etching of	**Tin-Doped** Indium Oxide	2	L40
Electromigration Characteristics of Sputtered	**TiN/Ti/AlSiCu/TiON/Ti** Interconnects with Aluminum Reflow	10	3297
Epitaxial C49-TiSi2 Formation on (100)Si Substrate Using	**TiNx** and Its Electrical Characteristics as a Shallow Contact Metallization	6	1984
Properties Nanocrystalline	**TiO2** (Anatase) Electrodes: Surface Morphology, Adsorption, and Electrochemical	2	394
Photocurrent Losses in Nanocrystalline/Nanoporous	**TiO2** Electrodes Due to Electrochemically Active Species in the Electrolyte	10	3173
Modulation Spectroscopy of Subbandgap Light in Reduced	**TiO2** Electrodes	11	3600
Electron Cyclotron Resonance Plasma Etching of Native	**TiO2** on TiN	1	264
Photoimage Formation in a	**TiO2** Particle-Incorporated Prussian Blue Film	11	3462
croporous Semiconductor Electrode Films Photoelectrochemical Doping of	**TiO2** Particles and the Effect of Charge Carrier Density on the Photocatalytic Activ	11	3712
with Tungsten The Photoelectrochemical Response of	**TiO2-WO3** Mixed Oxide Films Prepared by Thermal Oxidation of Titanium Coated	7	2226
A Predictive Kinetic Model for the Chemical Vapor Deposition of	**TiSi2**	5	1726
Adsorption of Chlorine on	**TiSi2**: Application to Etching and Deposition of Silicide Films	1	266
TiN Films Prepared by Chemical Vapor Deposition Using Tetrakis-dimethylamino	**Titanium** Stability of	9	L188
the Repassivation Behavior of High-Purity Titanium and Selected A, B and B + A	**Titanium** Alloys in Aqueous Chloride Solutions On	6	1847
essure Chemical Vapor Deposition of Titanium Nitride from tetrakis(Diethylamido)	**Titanium** and Ammonia Atmospheric Pr	2	736
ons On the Repassivation Behavior of High-Purity	**Titanium** and Selected A, B and B + A Titanium Alloys in Aqueous Chloride Soluti	6	1847
cal Response of TiO2-WO3 Mixed Oxide Films Prepared by Thermal Oxidation of	**Titanium** Coated with Tungsten The Photoelectrochemi	7	2226
Cathodic Electrodeposition of Nanocrystalline	**Titanium** Dioxide Thin Films	5	1547
Surface Characterization of RuO2-SnO2 Coated	**Titanium** Electrodes	1	32
Kinetics of Oxygen Reduction at IrO2-Coated	**Titanium** Electrode in Alkaline Solution	5	1485
Electrochemical Polymerization of Aniline and Toluidine on RuO2-Coated	**Titanium** Electrodes	12	4019
Atmospheric Pressure Chemical Vapor Deposition of	**Titanium** Nitride from tetrakis(Diethylamido) Titanium and Ammonia	2	736
	Titanium Nitridation on Copper Surfaces	7	2349
Cause of Aligned-Orientation Growth of	**Titanium** Silicide in Plasma Enhanced Chemical Vapor Deposition	11	3778
Safety and Performance of Tadiran	**TLR-7103** Rechargeable Batteries	7	2110
Electrochemical Polymerization of Aniline and	**Toluidine** on RuO2-Coated Titanium Electrodes	12	4019
The Direct Observation of Grown-in Laser Scattering	**Tomography** Defects in Czochralski Silicon	10	L343
FTIR Spectroscopy of Metal Oxide Insertion Electrodes: A New Diagnostic	**Tool** for Analysis of Capacity Fading in Secondary Li/LiMn2O4 Cells	6	L136
Investigations on High-Temperature Thermal Oxidation Process at	**Top** and Bottom Interfaces of Top Silicon of SIMOX Wafers	1	244
n High-Temperature Thermal Oxidation Process at Top and Bottom Interfaces of	**Top** Silicon of SIMOX Wafers Investigations o	1	244
Crystallized Amorphous Silicon Films Characteristics of	**Top-Gate** Polysilicon Thin-Film Transistors Fabricated on Fluorine-Implanted and	10	3302
sulting from a Prolonged Application of the Potential Reversal Technique	**Topographic** Changes of Polycrystalline Ag and Cu Electrodes in Acid Aqueous S	7	2294
Si-SiO2 Electronic Interface Roughness as a Consequence of Si-SiO2	**Topographic** Interface Roughness	3	1021
nar Flow in a Channel-Type Electrochemical Cell as Applied to In Situ Attenuated	**Total** Reflection-Infrared Spectroscopy Theoretical Aspects of Lami	10	3160
	Total Room Temperature Wet Cleaning for Si Substrate Surface	9	2957
A New Potentiometric Sensor for the Detection of	**Trace** Metallic Contaminants in Hydrofluoric Acid	10	L235
Identification and Removal of	**Trace** Organic Contamination on Silicon Wafers Stored in Plastic Boxes	10	3279
Oxygen	**Tracer** Diffusion in Polycrystalline In2O3	8	2698
Al2O3 Catalyst Using 13CO and 18O18O	**Tracers** to Study the Removal of Parts per Million CO and O2 from N2 over a Ni-	8	2429
Thermal Nitridation of SiO2 Films in Ammonia. Isotopic	**Tracing** of Nitrogen and Oxygen in the Initial Stages	9	2938
Thermal Nitridation of SiO2 Films in Ammonia. Isotopic	**Tracing** of Nitrogen and Oxygen in Further Stages and in Reoxidation	9	2946
Intramolecular Energy	**Transfer** and Mn4+ Luminescence in Polyoxometallomanganate Lattices	5	1578
de Crystals Thermodynamic Heat	**Transfer** and Mass Transport Modeling of the Sublimation Growth of Silicon Carbi	11	3727
Novel Electrochemical Method for Measuring Salt Diffusion Coefficients and Ion	**Transference** Numbers A	2	L44
Determination of Lithium Ion	**Transference** Numbers by Electrophoretic Nuclear Magnetic Resonance	6	L107
Anodes and Cathodes In Situ Fourier	**Transform** Infrared-Diffuse Reflection Spectroscopy of Direct Methanol Fuel Cell	10	3053
lectrode and the Application to the Electroreduction of CO2 In Situ Fourier	**Transform** Infrared Spectroscopic Studies on a Metal Complex-Immobilized Polya	11	3606
Phase	**Transformation** and Lattice Strain of alpha-AgI Stabilized in Superionic Glass	2	687
Characterization and Residue Elimination of Hot Aluminum Etching in a	**Transformer** Coupled Plasma Etcher	5	1763
Analysis of	**Transient** Hydrogen Uptake by Metal Alloy Particles	12	4039
des. Results for LiyCoO2 and LixC6 Thin Films A	**Transient** Method for Measuring Diffusion Coefficients of Thin Film Battery Electro	6	L129
of Diamond on Carbide-Forming Substrates during Chemical Vapor Deposition. I.	**Transient** Nucleation Stage Nucleation Kinetics	3	1104
Nonphotosensitive, Vertically Redundant Two-Channel a-Si:H Thin Film	**Transistor**	4	1489
Double-Layer mc-Si/a-SiCx Emitter in a Silicon Heterojunction Bipolar	**Transistor** with a Cutoff Frequency of 47 GHz	6	1949
Horizontally Redundant, Split-Gate a-Si:H Thin Film	**Transistors**	8	2680
Films Characteristics of Top-Gate Polysilicon Thin-Film	**Transistors** Fabricated on Fluorine-Implanted and Crystallized Amorphous Silicon	10	3302
Characterization of Proton-Induced Color	**Transition** in an Amorphous Tungsten Oxide Film	7	2341
mage Layer Induced by Large Tilt Angle Ion Implantation	**Transmission** Electron Microscopy and Spectroscopic Ellipsometry Studies of Da	8	2636
ugh an Al Mask Effects of	**Transmitted** Electrons on Inductively Coupled Plasma Etching of a Si Wafer Thro	11	3752
u X-Ray Near-Edge Spectroscopy	**Transpassive** Dissolution of Cr and Sputter-Deposited Cr Oxides Studied by In Sit	12	3997
Ni4.27Sn0.24 Electrodes in Alkaline Solution Determination of	**Transport** and Electrochemical Kinetic Parameters of Bare and Copper Coated La	3	834
s of Different Mixed-Conducting Oxides Analytic Solution for Charge	**Transport** and Chemical-Potential Variation in Single-Layer and Multilayer Device	10	3214
Modeling of Heat	**Transport** and Wafer Heating Effects during Plasma Etching	11	3674
-Gel Process A Kinetic Study of Lithium	**Transport** in a New Li Intercalation Material Al0.11V2O5.15 Synthesized via a Sol	7	2083
Critical Analysis of Potential Step Data for Oxygen	**Transport** in Electronically Conducting Perovskites	11	3497
Thermodynamic Heat Transfer and Mass	**Transport** Modeling of the Sublimation Growth of Silicon Carbide Crystals	11	3727
Mechanism of AC Electrical	**Transport** of Carriers in Freshly Formed and Aged Porous Silicon	12	3943
nes in Electrolytic Cells A Study of the	**Transport** of Formaldehyde and Ethylene Glycol Through Ion Permeable Membra	1	175
Effect of	**Transport** Phenomena on Boron Concentration Profiles in Silicon Epitaxial Wafers	2	677
The Dissipated Energy of Electrode Surfaces: Temperature Jumps from Coupled	**Transport** Processes	3	767
Effect of Interfacial Resistance on Determination of	**Transport** Properties of Mixed-Conducting Electrolytes	6	L109
ethylpyridinium Iodide Structure, 1H NMR Spectra, Thermodynamics, and	**Transport** Properties of Molten Salt Solutions. I. 4-Methylpyridinium Chloride and	1	183

		Issue	Page
Electrical	**Transport** Properties and Defect Structure of SrFeCo0.5Ox	5	1738
New Candidate for the Solid Oxide Fuel Cell Cathode, Y0.9Ca0.1FeO3. Electrical	**Transport** Properties and Defect Structure A	9	2983
e Containing Sulfonic Acid Group Prepared by RIGP Proton	**Transport** Through Polyethylene-Tetrafluoroethylene-Copolymer-Based Membran	9	2795
Investigation of Alkali Carbonate	**Transport** Toward the Catalyst in Internal Reforming MCFCs	10	3186
On Electron Conduction and	**Trapping** in SIMOX Dielectric	10	3354
Electro-optical Charge	**Trapping** in Zinc Porphyrin Films on Indium Tin Oxide and /SiO2/Si	6	1914
Electron	**Traps** and Excess Current Induced by Hot-Hole Injection into Thin SiO2 Films	10	3377
Nature of Charge	**Traps** in Anode Oxide Films on GaAs	3	1109
Electric Field Dependence of the Electron Capture Cross Section of Neutral	**Traps** in SiO2	8	2687
Stress Reduction in Anodically Bonded Silicon and Borosilicate Glass by Thermal	**Treatment**	4	1409
The Effect of Preheating	**Treatment** on Anodic Al2O3 Formed on Sputtered Al Thin Films	3	984
Deposition Plasma	**Treatment** Process for Palladium Chemisorption onto Polymers before Electroless	2	472
py Study of Chemical Oxides Formed by a Sequence of RCA Standard Cleaning	**Treatments** Infrared Spectrosco	9	2996
Microscale Dishing Effect in a Chemical Mechanical Planarization Process for	**Trench** Isolation	12	L281
A Dislocation Formation Model of	**Trench-Induced** Dislocations in Dynamic Random Access Memories	1	210
Etching Profiles and Neutral Shadowing in Long	**Trenches**	2	672
Near-Global Planarization of Oxide-Filled Shallow	**Trenches** Using Chemical Mechanical Polishing	11	3718
ectrochemically Codeposited Composites of Phosphomolybdic Acid and Tungsten	**Trioxide** Electrochromism of El	9	2784
ueous and Aqueous Electrolytes Electrochromic Behavior of Molybdenum	**Trioxide** Thin Films, Prepared by Thermal Oxidation of Electrodeposited Molybde	10	3109
ormamide, and Nitromethane at 25 C Conductance of Solutions of Lithium	**tris(Trifluoromethanesulfonyl)** Methide in Water, Acetonitrile, Propylene Carbona	1	154
hemical Stability of Electrolytes Containing Organic Solvent Mixtures with Lithium	**tris(Trifluoromethanesulfonyl)methide** Conductivity and Electroc	4	L80
xide Thin Films, Prepared by Thermal Oxidation of Electrodeposited Molybdenum	**Trisulfide**, in Mixtures of Nonaqueous and Aqueous Electrolytes Electrochr	10	3109
The Effect of Ultrafine Pigment Color Filters on Cathode Ray	**Tube** Brightness, Contrast, and Color Purity	3	1063
WO3 Mixed Oxide Films Prepared by Thermal Oxidation of Titanium Coated with	**Tungsten** The Photoelectrochemical Response of TiO2-	7	2226
Control of Selective	**Tungsten** Chemical Vapor Deposition by Monolayer Nitridation of Silicon Surface	2	L38
Electrochemistry of Chemical Vapor Deposited	**Tungsten** Films with Relevance to Chemical Mechanical Polishing	12	4095
Batch Reactor Kinetic Studies of Tungsten LPCVD from Silane and	**Tungsten** Hexafluoride	1	296
Effects of Plasma Excitation and Chemical Pretreatment on Adsorption of	**Tungsten** Hexafluoride on Silicon and Silicon Dioxide Studied by X-Ray Photoelec	11	3870
Batch Reactor Kinetic Studies of	**Tungsten** LPCVD from Silane and Tungsten Hexafluoride	1	296
Site-Saturation Model for the Optical Efficiency of	**Tungsten** Oxide-Based Devices	9	L186
Characterization of Proton-Induced Color Transition in an Amorphous	**Tungsten** Oxide Film	7	2341
Chemical Vapor Deposition of	**Tungsten** Schottky Diodes to 6H-SiC	5	1662
ism of Electrochemically Codeposited Composites of Phosphomolybdic Acid and	**Tungsten** Trioxide Electrochrom	9	2784
ng at Gold Electrode/Electrolyte Solution Interfaces Followed by In Situ Scanning	**Tunneling** Microscopy Kinetics of Particle Coarseni	2	466
Fabrication of GaAs Microtips for Scanning	**Tunneling** Microscopy by Wet Etching	8	2616
Anisotropic Etching of (110) n-Si in Aqueous NH4F: Studies by In Situ Scanning	**Tunneling** Microscopy Atomic-Scale Elucidation of the	12	4012
Nonphotosensitive, Vertically Redundant	**Two-Channel** a-Si:H Thin Film Transistor	4	1489
A New Successive System for Hydrogenation of Styrene Using a	**Two-Compartment** Cell Separated by a Pd Sheet Electrode	4	L71
Mixed Potential	**Type** NOx Sensor Based on Stabilized Zirconia and Oxide Electrode	2	L33
er Cathode A New	**Type** of a Rocking-Chair Battery Family Based on a Graphite Anode and a Polym	2	L29

— U —

olor Purity The Effect of	**Ultrafine** Pigment Color Filters on Cathode Ray Tube Brightness, Contrast, and C	3	1063
The Reaction of Clean Li Surfaces with Small Molecules in	**Ultrahigh** Vacuum. I. Dioxygen	2	422
H2 Cleaning of Silicon Wafers before Low-Temperature Epitaxial Growth by	**Ultrahigh** Vacuum/Chemical Vapor Deposition	7	2381
Cl2-NH3-H2 System and In Situ H2 Cleaning	**Ultrathin** Silicon Nitride Films Fabricated by Single-Wafer Processing Using SiH2	4	1489
	Ultraviolet Depth Lithography and Galvanoforming for Micromachining	1	237
ation of Sodium Ions in Metal Oxide Semiconductor Structures by Annealing with	**Ultraviolet** Light Passiv	10	3359
ectroscopy in the Presence of Convective Flow under Steady-State Conditions: A	**Unified** Mathematical Formalism In Situ Sp	11	3539
Convective Diffusion to a Microdisk Sensor Subject to	**Uniform** Shear Flow	1	197
The Effect of Multilayer Patterns on Temperature	**Uniformity** during Rapid Thermal Processing	3	1142
ean and Covariance Surfaces Improved Within-Wafer	**Uniformity** Modeling Through the Use of Maximum-Likelihood Estimation of the M	10	3404
mbient	**Unintentional** Doping of Wafers Due to Organophosphates in the Clean Room A	9	2906
Methanol Electro-oxidation on	**Unsupported** Pt-Ru Alloys at Different Temperatures	5	1685
	Upper Yield Stress of Si Crystals at High Temperatures	8	L176
Analysis of Transient Hydrogen	**Uptake** by Metal Alloy Particles	12	4039
ous Sintered-Nickel Cathodes Morphology and	**Utilization** of Smooth Hydrogen-Evolving Raney Nickel Cathode Coatings and Por	9	2852
Electrodeposited Silver Arrays Fabricated	**Utilizing** Self-Assembled Alkanethiolate Monolayer Photoresist	10	3117
Construction and Working Mechanism of Sulfur Dioxide Sensor	**Utilizing** Stabilized Zirconia and Metal Sulfate	2	609

— V —

Thermal Stability of Concentrated	**V(V)** Electrolytes in the Vanadium Redox Cell	4	L86
Wet Chemical Etching of High Quality	**V-Grooves** with {111} A Sidewalls on (001) InP	10	3271
High Surface Area	**V2O5** Aerogel Intercalation Electrodes	7	2099
The Reaction of Clean Li Surfaces with Small Molecules in Ultrahigh	**Vacuum**. I. Dioxygen	2	422
leaning of Silicon Wafers before Low-Temperature Epitaxial Growth by Ultrahigh	**Vacuum/Chemical** Vapor Deposition H2 C	7	2381
Thermal Model	**Validation** for Rapid Thermal Chemical Vapor Deposition of Polysilicon	1	374
Toward a Reliable	**Value** for the Diffusion Coefficient of Cupric Ion in Aqueous Solution	4	1248
ons Float Charging of	**Valve-Regulated** Lead-Acid Batteries: A Balancing Act Between Secondary Reacti	3	790
A New	**Vanadium** Dioxide Cathode	9	L193
istics and Electrochemical Insertion of Lithium Cations	**Vanadium** Oxide Fluoride-Graphite Intercalation Compounds: Structural Character	7	2093
Thermal Stability of Concentrated V(V) Electrolytes in the	**Vanadium** Redox Cell	4	L86
Control of Selective Tungsten Chemical	**Vapor** Deposition by Monolayer Nitridation of Silicon Surface	2	L38
Stability of TiN Films Prepared by Chemical	**Vapor** Deposition Using Tetrakis-dimethylamino Titanium	9	L188
Low Pressure Chemical	**Vapor** Deposition of Si1-xGex Films Using Si2H6 and GeH4 Source Gases	1	383
Thermal Model Validation for Rapid Thermal Chemical	**Vapor** Deposition of Polysilicon	1	374
Growth and Resistivity Behavior of Copper Film by Chemical	**Vapor** Deposition	2	624
Mechanism of Boron Incorporation during Silicon Epitaxy by Means of Chemical	**Vapor** Deposition On The	2	634
n and Film Evolution on Silicon Dioxide Using Disilane. Rapid Thermal Chemical	**Vapor** Deposition of Very Smooth Silicon at High Deposition Rates Silicon	2	649
traethylorthosilicate and Fluorotriethoxysilane at Room Temperature by Chemical	**Vapor** Deposition Characteristics of SiOF Films Formed Using Te	2	707
monia Atmospheric Pressure Chemical	**Vapor** Deposition of Titanium Nitride from tetrakis(Diethylamido) Titanium and Am	2	736
t Mechanism of Amorphous and Polycrystalline Ta2O5 Films Grown by Chemical	**Vapor** Deposition Leakage Curren	3	977
ization of High Oxygen: Tetraethylorthosilicate Ratio Plasma-Enhanced Chemical	**Vapor** Deposited Films Character	3	1079
Nucleation Kinetics of Diamond on Carbide-Forming Substrates during Chemical	**Vapor** Deposition. I. Transient Nucleation Stage	3	1104
he Effect of Gas-Phase Additives C2H4, C2H6, and C2H2 on SiH4/O2 Chemical	**Vapor** deposition T	4	1385
Electrochromic Properties of Cobalt Oxide Thin Films Prepared by Chemical	**Vapor** Deposition	4	1383
Gap Fill and Film Reflow Capability of Subatmospheric Chemical	**Vapor** Deposited Borophosphosilicate Glass	4	1414
Chemical	**Vapor** Deposition of Tungsten Schottky Diodes to 6H-SiC	5	1662
Electrochromic Properties of Iron Oxide Thin Films Prepared by Chemical	**Vapor** Deposition	5	1675
ality Nitrided Silicon Dioxide Films Using Electron-Cyclotron Resonance Chemical	**Vapor** Deposition with Nitrous Oxide and Silane Formation of High-Qu	5	1681
xide Films on Patterned Substrates Prepared by Atmospheric-Pressure Chemical	**Vapor** Deposition Using Tetraethoxysilane and Ozone Characteristics of Si	5	1715
Process-Property Relationships in Si1-xGex Chemical	**Vapor** Deposition. Thermodynamic and Kinetic Studies	5	1719
A Predictive Kinetic Model for the Chemical	**Vapor** Deposition of TiSi2	5	1726
Chromium Oxide Thin Films Prepared by Chemical	**Vapor** Deposition from Chromium Acetylacetonate and Chromium Hexacarbonyl	6	1955
Dielectric Constant and Stability of Fluorine-Doped Plasma Enhanced Chemical	**Vapor** Deposited SiO2 Thin Films	6	2015
Orientation Control of Chemical	**Vapor** Deposition TiN Film for Barrier Applications	6	2059
Wafers before Low-Temperature Epitaxial Growth by Ultrahigh Vacuum/Chemical	**Vapor** Deposition H2 Cleaning of Silicon	7	2381
Mesoscopic Scale Modeling of Microloading during Low Pressure Chemical	**Vapor** Deposition	8	2634
Remote Plasma Enhanced Chemical	**Vapor** Deposition of Silicon Films at Low Temperatures from Si2H6-H2-SiF4	8	2640
On the Role of Chlorine in Selective Silicon Epitaxy by Chemical	**Vapor** Deposition	10	3290

		Issue	Page
Particle Size Distribution in a Low Pressure SiH4:O2:He Chemical	Vapor Deposition Reactor. Experimental and Numerical Results	10	3397
of Aligned-Orientation Growth of Titanium Silicide in Plasma Enhanced Chemical	Vapor Deposition Cause	11	3778
g Electrochemistry of Chemical	Vapor Deposited Tungsten Films with Relevance to Chemical Mechanical Polishin	12	4095
lopentadienyl Manganese as a Dopant Source for ZnS in Metallorganic Chemical	Vapor Deposition Use of di-Pi-cyc	12	4116
Structural Model Effects on the Predictions of Chemical	Vapor Infiltration Models	6	1962
Thermodynamic Analysis of GaAs1-xPx	Vapor Phase Epitaxy	8	2631
Design and Performance of a New Reactor for	Vapor Phase Epitaxy of 3C, 6H, and 4H SiC	9	2910
al for Degradation Processes Chromium	Vapor Species over Solid Oxide Fuel Cell Interconnect Materials and Their Potenti	11	3642
	Variable Diffusivity in Intercalation Materials. A Theoretical Approach	4	1287
ides Analytic Solution for Charge Transport and Chemical-Potential	Variation in Single-Layer and Multilayer Devices of Different Mixed-Conducting Ox	10	3214
High-Resolution Measurement of Resistivity	Variations in Power Devices by the Photoscanning Method	12	4105
Electromigration Drift	Velocity in Al-Alloy and Cu-Alloy Lines	3	1001
A Study on Development of an Electrolysis System with	Vertically Circulating Mercury Capillary Bundle Electrode and Its Characteristics	9	2717
Nonphotosensitive,	Vertically Redundant Two-Channel a-Si:H Thin Film Transistor	4	1489
f Lithium Transport in a New Li Intercalation Material Al0.11V2O5.15 Synthesized	via a Sol-Gel Process A Kinetic Study o	7	2083
A Search for the Mechanism of Direct Copper Plating	via Bridging Ligands	11	3821
Roles of Cap-Metal on	Via Electromigration Resistance in Aluminum-Based Interconnections	3	1043
Semiconductor Electrochemistry of Particulate Pyrite: Dissolution	via Hole and Electron Pathways	10	3192
In Situ Formation of Coated and Composite Palladium Particles	via Spray Pyrolysis	11	3762
th The	Viability of GeH4-Based In Situ Clean for Low Temperature Silicon Epitaxial Grow	7	2387
lene Carbonate Plasticizer for PAN-based Electrolytes A	Vibrational Spectroscopic Study on the Interaction Between Lithium Salt and Ethy	5	1510
Luminescence of Cs2NbOF5:	Vibrational Structure in [NbOF5]2- Luminescence	10	L234
Application of Neutron Radiography to	Visualize the Motion of Lithium Ions in Lithium Ion Conducting Materials	6	1866
Silver Electrocrystallization on	Vitreous Carbon from Ammonium Hydroxide Solutions	5	1551
Electrochemical Lithium Intercalation in	VO2(B) in Aqueous Electrolytes	9	2730
Microstructural Properties of Helium Implanted	Void Layers in Silicon as Related to Front-Side Gettering	2	725
Characterization of Solid Oxide Fuel Cells by Use of an Internal Pt	Voltage Probe	5	1558
Li9SiAlO8: A Lithium Ion Electrolyte for	Voltages above 5.4 V	7	2198
	Voltammetric Response of Nicotinamide Coenzyme I at a Silver Electrode	7	L141
e of Supporting Electrolyte Electroreduction of C60 in Aprotic Solvents. III.	Voltammetric Study, at Microelectrode, of C60n- (n = 0 to 4) Solvation in the Abs	2	550
Determination of Mixtures of Polysulfides by Cyclic	Voltammetry	10	L223
lectrode in H2SO4. III. A Study of the Growth of the PbO Layer by Linear Sweep	Voltammetry Kinetics of Oxidation Processes on Lead E	4	1157
lectrolyte and of Its Polymer Electrolyte Solutions in Polydimethylsiloxane	Voltammetry and Conductivity of a Polyether-Pyridinium Room Temperature Molt	2	401
Nonideality for a Square Scheme Surface Redox Reaction Cyclic	Voltammetry of a TCNQ(Of-1) Solid-State Redox Couple. Role of Nucleation and	10	3039
Probe Beam Deflection Combined with Cyclic	Voltammetry Studies of C60-Modified Electrode Film	12	3874

— W —

Thermal Stability of	W-Contacted Junction Diodes	6	2053
Modification of Silicon Surfaces with H2SO4:H2O2:HF and HNO3:HF for	Wafer Bonding Applications	5	1709
A Model of Low-Temperature	Wafer Bonding and Its Applications	5	1773
rce Microscopy Study on the Roughness of Silicon Wafers Correlated with Direct	Wafer Bonding An Atomic Fo	7	2365
Improvement of High Temperature Water Rinsing and Drying for HF-Last	Wafer Cleaning	1	233
Synchrotron-Radiation-Excited Etching of Silicon	Wafer Enhanced by Disk-Shaped CF4 Plasma	12	4109
Si	Wafer Etching with Synchrotron Radiation in a CF4 Gas Atmosphere	11	3754
Modeling of Heat Transport and	Wafer Heating Effects during Plasma Etching	11	3674
Is Ti Contamination in Si	Wafer Processing an Issue?	7	2353
Impact of the Electrochemical Properties of Silicon	Wafer Surfaces on Copper Outplating from HF Solutions	10	3323
Effects of Transmitted Electrons on Inductively Coupled Plasma Etching of a Si	Wafer Through an Al Mask	11	3782
Influence of SC-1/SC-2 Cleaning on	Wafer-Bonded Silicon Dioxide Structures	11	3722
fect of Transport Phenomena on Boron Concentration Profiles in Silicon Epitaxial	Wafers Ef	2	677
hermal Oxidation Process at Top and Bottom Interfaces of Top Silicon of SIMOX	Wafers Investigations on High-Temperature T	1	244
Nonparticulate Origins of Light Point Defects on Polished Silicon	Wafers	6	2068
Low-Temperature Out-Diffusion of Cu from Silicon	Wafers	6	2026
Vapor Deposition H2 Cleaning of Silicon	Wafers before Low-Temperature Epitaxial Growth by Ultrahigh Vacuum/Chemical	7	2381
An Atomic Force Microscopy Study on the Roughness of Silicon	Wafers Correlated with Direct Wafer Bonding	7	2365
Unintentional Doping of	Wafers Due to Organophosphates in the Clean Room Ambient	9	2906
Surface and Interfacial Roughness of Polished and Oxidized Silicon	Wafers Evaluated by an Infrared Differential Interference Contrast Technique	11	L254
Electrochemical Investigation of Copper Contamination on Silicon	Wafers from HF Solutions	9	2870
Identification and Removal of Trace Organic Contamination on Silicon	Wafers Stored in Plastic Boxes	10	3279
First Observations of 0.1 um Size Particles on Si	Wafers Using Atomic Force Microscopy and Optical Scattering	12	4125
ning Effect of Mask	Wall Angle on Shape Evolution during Through-Mask Electrochemical Micromachi	2	844
Modeling and Analysis of a New Multiwafer Hot	Wall Phosphorus Doping Reactor	4	1362
Kinetics and Modeling of Wet Etching of Aluminum Oxide by	Warm Phosphoric Acid	2	619
Use of a Hydrogen Anode for Nitrate	Waste Destruction	10	3094
Recovery of Bromine from	Waste Gas-Phase Hydrogen Bromide Streams Using an Electrolytic Membrane	9	L184
logy and Structure of Oxide Films Formed on MgAl Alloys by Exposure to Air and	Water Morpho	8	2564
Conductance of Solutions of Lithium tris(Trifluoromethanesulfonyl) Methide in	Water, Acetonitrile, Propylene Carbonate, N,N-Dimethylformamide, and Nitrometh	1	154
Electro-osmotic Drag Coefficient of	Water and Methanol in Polymer Electrolytes at Elevated Temperatures	4	1260
Oxidation Kinetics of	Water and Organic Compounds by Silver (II) Using a Potentiometric Method	6	1860
etal and Organic Contaminants from Silicon Substrates Using Electrolysis-Ionized	Water Containing Ammonium Chloride Removal of M	5	1632
Electrolysis of	Water in CuO/ZnO Heterocontact Humidity Sensor	4	L89
Improvement of High Temperature	Water Rinsing and Drying for HF-Last Wafer Cleaning	1	233
Role of Chemical Species in the Passivation of <100> Silicon Surfaces by HF in	Water-Ethanol Solutions The	12	4059
lasma Etching of Polyurethane-Based Electro-optic Polymer for Low Loss Optical	Waveguide Fabrication Optimized Oxygen P	11	3648
Flow-Induced Composition Modulated NiFe Thin Films with Nanometer-Scale	Wavelengths	3	873
Modeling of the	Wear Mechanism during Chemical-Mechanical Polishing	2	716
Thickness Dependence of Oxide	Wearout	11	3736
rmeation in Perfluorinated Proton Exchange Membranes with Different Equivalent	Weights Microelectrode Investigation of Oxygen Pe	3	927
Multiple Source Quantum	Well Model of Porous Silicon Light Emission	4	1394
	Wet and Dry Etching of LiGaO2 and LiAlO2	8	L169
Growth Effects in Micron and Submicron Field Regions. A Comparison Between	Wet and Dry Oxidation Oxide	9	2953
	Wet Chemical Etch Solutions for AlxGa1-xP	1	L1
r the Si-F-H2O System Dissolution Windows for	Wet Chemical Processing of Silicon and Silicon Dioxide: Potential-pH Diagrams fo	2	749
Nonuniformities in Chemical Oxides on Silicon Surfaces Formed during	Wet Chemical Cleaning	7	2280
nP	Wet Chemical Etching of High Quality V-Grooves with (111) A Sidewalls on (001) I	10	3271
	Wet Chemical Digital Etching of GaAs at Room Temperature	11	3652
	Wet Chemical Etching of AlN and InAlN in KOH Solutions	11	3681
Total Room Temperature	Wet Cleaning for Si Substrate Surface	9	2957
Kinetics and Modeling of	Wet Etching of Aluminum Oxide by Warm Phosphoric Acid	2	619
Fabrication of GaAs Microtips for Scanning Tunneling Microscopy by	Wet Etching	8	2618
	Wettability of Polished Silicon Oxide Surfaces	2	643
The Hydrogen Reduction of	WF6: A Kinetic Study Based on In Situ Partial Pressure Measurements	5	1688
Electron Spectroscopy for Chemical Analysis of Cool	White Phosphors Coated with SiO2 Thin Film	1	302
Theory and Simulation of Solid-Electrolyte	Wide-Range Sensors for Combustion-Gas Streams	7	2396
H Diagrams for the Si-F-H2O System Dissolution	Windows for Wet Chemical Processing of Silicon and Silicon Dioxide: Potential-p	2	749
Surface Evolution in a Pulsed Laser Induced Epitaxy Process of Submicron SiGe	Wires	8	2678
ation of the Mean and Covariance Surfaces improved	Within-Wafer Uniformity Modeling Through the Use of Maximum-Likelihood Estim	10	3404
Electrochemical Behavior of	WO3 Films in H3PO4/H2O Binary Mixtures	9	2789
Electrochromism in Sputtered	WO3 Thin Films	3	1050
Photo- and Chemiluminescence from	Wohler Siloxanes	8	2674
al Sulfate Construction and	Working Mechanism of Sulfur Dioxide Sensor Utilizing Stabilized Zirconia and Met	2	609

		Issue	Page
	Workpiece, Pattern, and Feature Scale Current Distributions	2	486
ma	A **WSixN** Diffusion Barrier Formed with Electron Cyclotron Resonance Nitrogen Plas	11	3747

— X —

		Issue	Page
Studies of the Formation of Cerium-Rich Protective Films Using	**X-Ray** Absorption Near-Edge Spectroscopy and Rotating-Disk-Electrode Methods	1	147
tificial Iron Oxide Passive Films	In Situ **X-Ray** Absorption Near-Edge Spectroscopic Study of the Cathodic Reduction of Ar	2	574
s on Amorphous Al-Fe-Ce Alloys	An **X-Ray** Absorption Near-Edge Spectroscopic Study of the Structure of Passive Film	2	614
Battery Electrodes	In Situ **X-Ray** Absorption Near-Edge Structure Evidence for Quadrivalent Nickel in Nickel	5	1613
Hydrogen Electrocatalysis by Carbon Supported Pt and Pt Alloys. An In Situ	**X-Ray** Absorption Study	7	2285
2/CsCl-PEO Complexes	**X-Ray** Absorption Studies of ZnCl2-PEO and Mixed Salt ZnCl2/KCl-PEO and ZnCl	10	3196
Shallow Angle	**X-Ray** Diffraction from As-Deposited Diamond Thin Films	3	1033
elf-Developing Characteristics of Si Containing Polymers and Their Application to	**X-Ray** Lithography S	2	657
anspassive Dissolution of Cr and Sputter-Deposited Cr Oxides Studied by In Situ	**X-Ray** Near-Edge Spectroscopy Tr	12	3997
Contact Etching Process Characterization by Using Angular	**X-Ray** Photoelectron Spectroscopy Technique	4	1347
Al0.8Co0.7 Electrochemical and	**X-Ray** Photoelectron Spectroscopy Characterization of Surface Films on MmNi3.5	8	2432
n Adsorption of Tungsten Hexafluoride on Silicon and Silicon Dioxide Studied by	**X-Ray** Photoelectron Spectroscopy Effects of Plasma Excitation and Chemi	11	3670
Performance of Lithium/V2O5	**Xerogel** Coin Cells	11	3473
mical Impedance Spectroscopy Electrochemistry of Conducting Polymers.	XIX. Oxidation of Aniline at Bare and Polyaniline-Modified Platinum Electrodes Stu	4	1289
faces	**XPS** and STM Study of Passive Films Formed on Fe-22Cr(110) Single-Crystal Sur	4	1182
ing Disk Electrode Techniques Electrochemistry of Conductive Polymers.	XX. Early Stages of Aniline Polymerization Studied by Spectroelectrochemical and	4	1277

— Y —

		Issue	Page
Optical Switching of	**Y-Hydride** Thin Film Electrodes. A Remarkable Electrochromic Phenomenon	10	3348
A New Candidate for the Solid Oxide Fuel Cell Cathode,	**Y0.9Ca0.1FeO3**. Electrical Transport Properties and Defect Structure	9	2863
Upper	**Yield** Stress of Si Crystals at High Temperatures	8	L178
Temperature Molten Salt Electrochemical and Spectroscopic Studies of	**Ytterbium** in the Aluminum Chloride - 1-Methyl-3-ethylimidazolium Chloride Room	1	170
Electronic Conduction Mechanism in	**Yttria-Stabilized** Zirconia-Titania under Reducing Atmospheres	11	3706
Preparation and Characterization of Fine-Grain	**Yttrium-Based** Phosphors by Sol-Gel Process	1	189

— Z —

			Issue	Page
on. Quantitative Interpretation of the Thermodynamic Properties of NaCl(aq) from	**"Zero** to Saturation"	Physical Electrochemistry of Strong Electrolytes Base	6	1786
Effect of Hydrogen Sulfide and Nitrogen Dioxide on the Atmospheric Corrosion of	**Zinc**	The Synergistic	1	81
ctrolyte Based Galvanic Cell for Measuring the Antimony Concentration in Molten	**Zinc**	Solid Ele	8	2498
Galvanic Corrosion of	**Zinc** and Its Alloys		4	1472
Electrochemical Quartz Crystal Microgravimetry Study of	**Zinc** Electrode Behavior in a Neutral Solution by Laser Illumination		5	1525
Spectroelectrochemical Studies on Dissolution and Passivation of	**Zinc** Electrodes in Alkaline Solutions		7	2125
Oxidation of	**Zinc** in Alkaline Solutions Studied by Electrochemical Impedance Spectroscopy		12	3896
Atmospheric Corrosion of	**Zinc** in the Presence of Ammonium Sulfate Particles		5	1539
The Effects of Multiple Electroplated	**Zinc** Layers on the Inhibition of Hydrogen Permeation Through an Iron Membrane		6	1871
Electrolyte Optimization for Cathodic Growth of	**Zinc** Oxide Films		3	L53
Electro-optical Charge Trapping in	**Zinc** Porphyrin Films on Indium Tin Oxide and /SiO2/Si		6	1914
Properties of	**Zinc** Telluride Containing Impurities Introduced during Spray Pyrolysis		12	4054
Morphology Evolution of	**Zinc-Iron** Binary Alloys Electrodeposited with Copper Additive		4	L75
Electrochemical Behavior of Thin Anodic Oxide Films on	**Zircaloy-4**. Role of the Mobile Defects		12	3902
Mixed Potential Type NOx Sensor Based on Stabilized	**Zirconia** and Oxide Electrode		2	L33
onstruction and Working Mechanism of Sulfur Dioxide Sensor Utilizing Stabilized	**Zirconia** and Metal Sulfate C		2	609
Diffusion-Controlled Electrode Reaction at the Compact La1-xSrxMnO3/Stabilized	**Zirconia** Interface in Oxygen Atmospheres	A Chemical	10	3065
Electronic Conduction Mechanism in Yttria-Stabilized	**Zirconia-Titania** under Reducing Atmospheres		11	3706
Methacrolein Production from iso-Butane Using a Au/Yttria-Stabilized	**Zirconia/Ag** Electrochemical Reaction Cell		11	L249
Superprotonic Conductors of Glassy	**Zirconium** Phosphates		1	144
A Model for Nanolaminated Growth Patterns in	Zn and Zn-Co Electrodeposits		5	1577
A Model for Nanolaminated Growth Patterns in Zn and	**Zn-Co** Electrodeposits		5	1577
X-Ray Absorption Studies of	**ZnCl2-PEO** and Mixed Salt ZnCl2/KCl-PEO and ZnCl2/CsCl-PEO Complexes		10	3196
X-Ray Absorption Studies of ZnCl2-PEO and Mixed Salt ZnCl2/KCl-PEO and	**ZnCl2/CsCl-PEO** Complexes		10	3196
X-Ray Absorption Studies of ZnCl2-PEO and Mixed Salt	**ZnCl2/KCl-PEO** and ZnCl2/CsCl-PEO Complexes		10	3196
Micropattern Formation on	**ZnO** Films Using a Photodissolution Reaction		11	3743
Electrophoretic Deposition of	**ZnO:Zn** Phosphor for Field Emission Display Applications		12	3823
Use of di-Pi-cyclopentadienyl Manganese as a Dopant Source for	**ZnS** in Metallorganic Chemical Vapor Deposition		12	4116
Kinetics of the Hydrogen Evolution Reaction at Various	**Zr-Based** Laves-Phase Hydrogen-Storage Alloy Electrodes		8	2527
The Role of Microcracking in	**ZrCrNi** Hydride Electrodes		2	L31